

LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

Volume 5 | Map books

CFA26 | Washwood Heath to Curzon Street
Ecology

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Department
for Transport

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EC-02 – Phase 1 Habitat (1:10,000)	<i>This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey, the information is based on available desk study and interpretation of aerial photography.</i>
EC-03 - Phase 1 Habitat (1:2,500)	<i>This map series shows Phase 1 habitat survey information for land required and in the vicinity of the construction of the Proposed Scheme at a scale of 1:2,500. Where it has not been possible to gain access for field survey the information is based on available desk study and interpretation of aerial photography. This map series is only provided at those locations where a larger scale is required.</i>
EC-04 – Amphibians	<i>This map series shows the results of amphibian surveys conducted to inform the Environmental Assessment. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.</i>
EC-05 – Bats – Roost	<i>This series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats. It shows the location of roosts confirmed by surveys and features identified as having high/moderate potential to support roosting bats.</i>
EC-07 – Reptiles	<i>This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.</i>
EC-08 – Breeding Birds – Protected and Notable Species	<i>This map series shows records of protected/notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds. The locations of nest sites for species such as barn owl and raptor species which may be liable to persecution are not displayed.</i>
EC-10 – Phase 2 Habitat Survey	<i>This map series shows the extent of detailed habitat surveys undertaken to inform the Environmental Statement. The map shows the location of hedgerows that qualify as 'important hedgerows' under the wildlife and landscape criteria of the Hedgerows Regulations (1997).</i>
EC-11 – Other Protected and Notable Species (1)	<i>This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.</i>
EC-12 – Other Protected and Notable Species (2)	<i>This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.</i>

Mapping explanatory notes

Copyright statements

Copyright statements are presented in the data dictionary and definitions section at the front of the map book, due to limited space to include this on the individual maps themselves.

Ordnance Survey data

All maps produced as part of the London-West Midlands Environmental Statement (ES) contain Ordnance Survey (OS) data. HS2 Ltd uses the most up-to-date mapping available, where possible, supplied by the OS. As such, we cannot be held responsible for any inaccuracies within this data.

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Chainage

Most of the maps presented as part of the ES have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XX+YYY, for example: 77+000.

Chainage (known as reference chainage) is referenced from Euston station, which is 0+000, and the value presented is in metres. For example, 77+000 refers to the point 77,000m, or 77km, from Euston station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000, scale chainage is shown at 5km intervals. For maps at 1:25,000, scale chainage is shown at 2km intervals. For maps at 1:10,000, 1:5,000 and 1:2,500 scales, chainage is shown at 1km intervals.

Chainage has been included on the maps as a useful tool for comparing map sets showing the different environmental themes or engineering plans, due to map sets having different scales and therefore showing differing amounts of alignment on the map.

Map orientation

The majority of the maps presented in these map books are presented with the railway alignment running horizontally across the page. The direction of travel to London would be following the alignment to the right hand side of the page, and the West Midlands to the left.

The exceptions to this are map series LV-02, LV-03, LV-04, LV-07 and LV-08, which present the alignment running from the bottom to the top of the page. This is to allow more of the modelled outputs to be shown at the appropriate map scale. In this instance, the direction of travel to London would be to the bottom of the page, and the West Midlands to the top.

Map books

There are a total of 76 map books in the ES, spread across Volumes 2, 4 and 5. A list of the titles is provided in the table below for reference.

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Volume 2 Map Books Community Forum Area: 01 Euston – Station and Approach	Volume 5 Map Books: Ecology – Community Forum Area: 05 Northolt Corridor
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Volume 2 Map Books Community Forum Area: 05 Northolt Corridor	Volume 5 Map Books: Ecology – Community Forum Area: 09 Central Chilterns
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Volume 5 Map Books: Agriculture, Forestry and Soils	Volume 5 Map Books: Socio-Economic
Volume 5 Map Books: Air Quality	Volume 5 Map Books: Sound, Noise and Vibration – Euston and London Metropolitan
Volume 5 Map Books: Community	Volume 5 Map Books: Sound, Noise and Vibration – Country South
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Volume 5 Map Books: Cultural Heritage – Country North	Volume 5 Map Books: Traffic and Transport
Volume 5 Map Books: Cultural Heritage – West Midlands Metropolitan	Volume 5 Map Books: Water Resources – Euston and London Metropolitan
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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

Data dictionary and definitions

Data dictionary and definitions

Legend features	Definition	Source	Copyright
250m radius from all water bodies where presence of great crested newt is confirmed.	250m radius from all water bodies where presence of great crested newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
50m radius from all water bodies where presence of great crested newt is confirmed.	50m radius from all water bodies where presence of great crested newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
500m radius from all water bodies where presence of great crested newt is confirmed.	500m radius from all water bodies where presence of great crested newt (GCN) is confirmed.	High Speed Two (HS2) Ltd	
Ancient Woodland	Ancient Woodland Inventory. Ancient Woodland is land that has had continuous woodland cover since at least AD1600.	Natural England	© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
Aquatic invertebrate: Aquatic invertebrate survey location	Location of aquatic invertebrate survey.	High Speed Two (HS2) Ltd	
Areas isolated by significant barriers to amphibian movement	Areas isolated by significant barriers to amphibian movement.	High Speed Two (HS2) Ltd	
Biodiversity Alert Site (BAS)	<p>Local wildlife sites in Staffordshire are Biodiversity Alert Sites (BAS) and Sites of Biological Importance (SBI). BAS are local wildlife sites and are of lower intrinsic quality or have suffered damage or disturbance. Nevertheless, they collectively form a significant part of Staffordshire's nature conservation resource, and, in some cases, a valuable reserve series for some of the SBI.</p> <p>The BAS information is reproduced from, or based upon information supplied by Staffordshire Ecological Record (SER) and reproduced with the permission of the SER Partnership. Individual records within the data are copyright their original recorders and provided under licence via SER.</p> <ul style="list-style-type: none"> - All data supplied by SER is, to the best of SER's knowledge, correct at the time of production. However, the precision or accuracy of SER data is usually based upon the original information supplied by the recorder and although SER strives to ensure all records are checked and validated, SER cannot be held responsible for any errors or omissions - The presence of a marked boundary within SER information does not imply any right of public access. 	Staffordshire Ecological Record	Copyright © Staffordshire Ecological Record Partnership, (2013).
Biological Notification Sites (BNS)	Biological Notification Sites (BNS) preceded Local Wildlife Sites as a local non-statutory designation. They were first designated in the late 1980s and have since been revised. There are no formal citations and for some sites we have no survey data.	Buckinghamshire County Council, Buckinghamshire and Milton Keynes Environment Record Centre (BMERC)	Based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Buckinghamshire County Council Licence No. 100021529, 2012. Copyright Buckinghamshire County Council.
Breeding birds - protection status: Species listed on Annex I of the Birds Directive Species listed on Schedule 1 of the Wildlife and	Field survey records of selected protected and/or notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
Countryside Act Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices Other notable species relevant to assessment – see Volume 5 Appendices			
Breeding birds - survey extent	Area where breeding birds survey was conducted.	High Speed Two (HS2) Ltd	
Community Forum boundary	The Environmental Statement has been split into 26 sections called Community Forum Areas.	High Speed Two (HS2) Ltd	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Confirmed bat roost – buildings: Hibernation roost Maternity roost Other roost Multiple roost types Potential to support roosting bats – buildings: High Moderate	Locations where bat roost survey has been completed within buildings. Buildings are categorised into those with potential to support bat roosts (high and medium potential) and those that have confirmed roosts. Confirmed roosts are further categorised into Hibernation, Maternity, Other or Multiple roosts.	High Speed Two (HS2) Ltd	
Confirmed bats roost – trees: Hibernation roost Maternity roost Other roost Multiple roost types Potential to support roosting bats – trees: High Moderate	Locations where bat roost survey has been completed within trees. Trees are categorised into those with potential to support bat roosts (high and medium potential) and those that have confirmed roosts. Confirmed roosts are further categorised into Hibernation, Maternity, Other or Multiple roosts.	High Speed Two (HS2) Ltd	
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Depot, station, headhouse or portal building	Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.	High Speed Two (HS2) Ltd	
District/Borough boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Ditch vegetation survey	Extent of ditch vegetation surveys.	High Speed Two (HS2) Ltd	
Dormouse: Nest tube survey and/or nut search conducted and presence confirmed Nest tube survey and/or nut search conducted and no signs of dormouse identified Site identified as potentially suitable for dormouse but no access available	Extent of dormouse survey using nest tube and/or nut search. Those areas where access was available either had confirmed presence or no signs were found.	High Speed Two (HS2) Ltd	
Fish: Fish survey location	Location where fish survey was conducted.	High Speed Two (HS2) Ltd	
Great crested newt (GCN) survey locations	Results from great crested newt pond surveys.	High Speed Two (HS2) Ltd	
'Important' hedgerow confirmed by field survey Possible 'important' hedgerow - no access available for survey	Location of those hedgerows that have been identified as 'important hedgerows' or possible 'important hedgerows' under the wildlife and landscape criteria in the Hedgerows Regulations (2007).	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
Land potentially required during construction	Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works.	High Speed Two (HS2) Ltd	
Local Nature Reserve (LNR)	A Local Nature Reserve (LNR) is a statutory designation made under Section 21 of the National Parks and Access to the Countryside Act 1949 by principal local authorities. Data supplied has the status of Declared. The boundaries are interpreted from material gathered from the local authorities and does not currently cover all LNRs. This national dataset is indicative not definitive. Definitive information can only be provided by individual local authorities and you should refer directly to their information for all purposes that require the most up to date and complete dataset.	Natural England	© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
Local Wildlife Site (LWS)	<p>Local Wildlife Sites (LWS) are identified and selected for their local nature conservation value. They protect threatened species and habitats acting as buffers, stepping stones and corridors between nationally designated wildlife sites.</p> <p>They are local non-statutory nature conservation sites. They were formerly referred to as County Wildlife Sites.</p>	<p>EcoRecord Warwickshire County Council Birmingham Council</p> <p>Greenspace Information for Greater London (GiGL)</p> <p>Northamptonshire County Council</p> <p>Buckinghamshire County Council</p> <p>Thames Valley Ecological Records Centre (TVERC) c/o Oxfordshire County Council</p> <p>Hertfordshire County Council</p> <p>Staffordshire Ecological Record (SER)</p>	<p>Data supplied by EcoRecord, Warwickshire BRC & Birmingham © Crown copyright and database rights 2012 Ordnance Survey Licence Number 100049190.</p> <p>Map derived from GiGL data 2012 (where a map shows information derived from GiGL data).</p> <p>This data incorporates biodiversity data supplied to HS2 by Northamptonshire Biodiversity Records Centre and The Wildlife Trust for Bedfordshire, Cambridgeshire and Northamptonshire (Wildlife Trust BCN), and is copyright to Wildlife Trust BCN and/or its partners.</p> <p>This map is based upon Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Buckinghamshire County Council Licence No. 100021529, 2012.</p> <p>Incorporates biodiversity data supplied by Thames Valley Environmental Records Centre (TVERC). This data are copyright to TVERC and/or its partners.</p> <p>Incorporates biodiversity data supplied to High Speed Two (HS2) by Hertfordshire Biological Records Centre and is copyright to Hertfordshire County Council, Hertfordshire Biological Records Centre and/or its partners.</p> <p>Copyright © Staffordshire Ecological Record</p>

Legend features	Definition	Source	Copyright
			Partnership, 2013. The information is reproduced from, or based upon information supplied by Staffordshire Ecological Record (SER) and reproduced with the permission of the SER Partnership. Individual records within the data are copyright their original recorders and provided under licence via SER. All data supplied by SER is, to the best of SER's knowledge, correct at the time of production. However, the precision or accuracy of SER data is usually based upon the original information supplied by the recorder and although SER strives to ensure all records are checked and validated, SER cannot be held responsible for any errors or omissions. The presence of a marked boundary within SER information does not imply any rights of public access.
National Nature Reserve (NNR)	A National Nature Reserve (NNR) is the land declared under the National Parks and Access to the Countryside Act 1949 or Wildlife and Countryside Act (1981) as amended.	Natural England	© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
National Vegetation Classification survey	Extent of National Vegetation Classification surveys.	High Speed Two (HS2) Ltd	
Nature reserve	<p>Designated and non-designated nature reserves managed by local authorities, The Wildlife Trusts and private landowners.</p> <p>Nature reserve information is reproduced from, or based upon information supplied by Staffordshire Ecological Record (SER) and reproduced with the permission of the SER Partnership. Individual records within the data are copyright their original recorders and provided under licence via SER.</p> <p>- All data supplied by SER is, to the best of SER's knowledge, correct at the time of production. However, the precision or accuracy of SER data is usually based upon the original information supplied by the recorder and although SER strives to ensure all records are checked and validated, SER cannot be held responsible for any errors or omissions</p> <p>- The presence of a marked boundary within SER information does not imply any right of public access.</p>	Ecorecord, Staffordshire Ecological Record, Royal Society for the Protection of Birds	<p>Licensed in accordance with PSMA © Crown Copyright and database rights [2013]. Ordnance Survey Licence number 100049190.</p> <p>Copyright © Staffordshire Ecological Record Partnership, (2013).</p> <p>Data reproduced with the permission of RSPB. © Crown copyright. Ordnance Survey Licence Number 100021787 (2013).</p>
Otter: Active otter holt Potential otter holt	Location of active otter holts and potential otter holts found during field survey.	High Speed Two (HS2) Ltd	
Otter terrestrial habitat	Areas of terrestrial habitat within 100m of the Proposed Scheme that are identified as having 'high' potential to act as otter breeding sites (i.e. those ranked as having a score of 5 on the scale devised by Chanin).	High Speed Two (HS2) Ltd	
Phase 1 habitat survey data	Results from Phase 1 habitat surveys.	High Speed Two (HS2) Ltd	
Pond survey: Pond survey – national pond survey Pond survey – PSYM Pond survey – rapid assessment method	Location and type of pond surveys conducted.	High Speed Two (HS2) Ltd	
Reptiles - Population	Areas where a reptile survey was completed. Survey varies from	High Speed Two (HS2) Ltd	

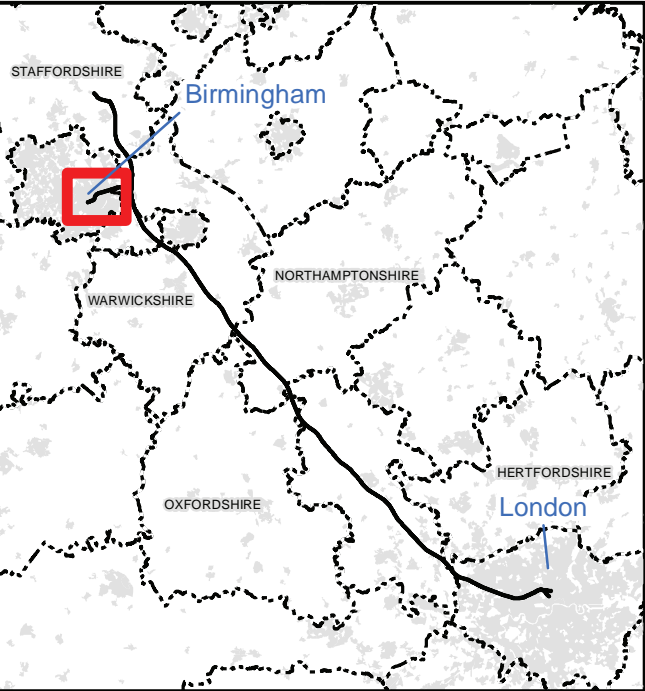
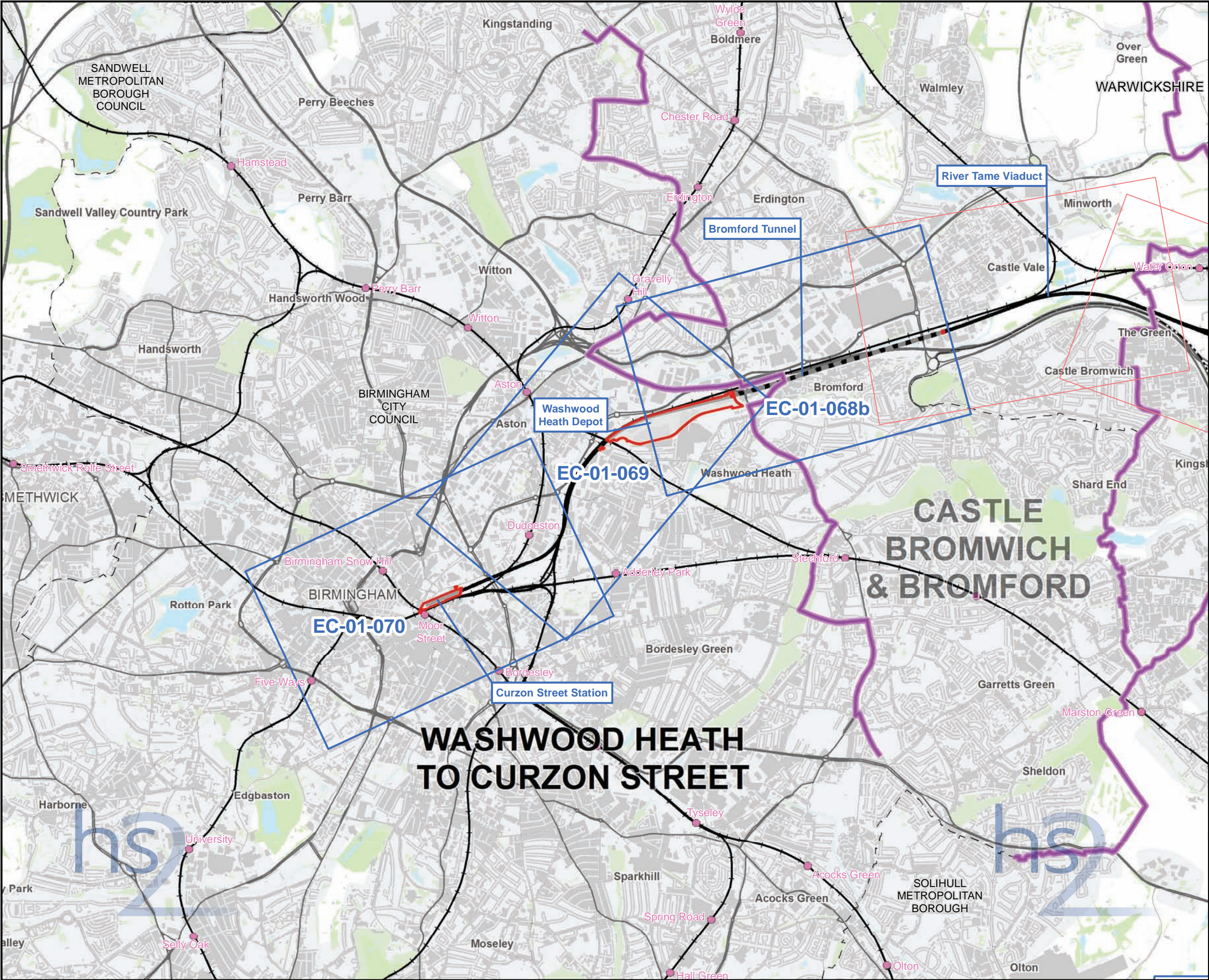
Legend features	Definition	Source	Copyright
	population size class assessment, presence/absence survey or scoping visit only where it was then scoped out or it was identified as requiring further survey.		
Reptiles - Extent of areas subject to reptiles survey and results of population size class assessment	Identifies population size classes of adder, common lizard, grass snake and slow worm based on a scale from high, medium, low and absent.	High Speed Two (HS2) Ltd	
River corridor survey extent	Extent of river corridor surveys.	High Speed Two (HS2) Ltd	
River habitat survey extent	Extent of river habitat surveys.	High Speed Two (HS2) Ltd	
Route in tunnel Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Site of Biological Importance (SBI)	<p>Local wildlife sites in Staffordshire are called Sites of Biological Importance (SBI) and Biodiversity Alert Sites (BAS). SBI are generally the best remaining examples within Staffordshire of habitats which rate highly on the basis of such factors as naturalness, diversity or rarity of species or communities. These sites are frequently the remnants of larger areas of semi-natural vegetation, which may not be either sufficiently extensive or undisturbed to warrant SSSI status but are important examples of characteristic or notable vegetation types or habitat complexes (sometimes with associated dependent plant or animal species). As such, they contribute the most significant element in the county's nature conservation resources.</p> <p>The SBI information is reproduced from, or based upon information supplied by Staffordshire Ecological Record (SER) and reproduced with the permission of the SER Partnership. Individual records within the data are copyright their original recorders and provided under licence via SER.</p> <p>- All data supplied by SER is, to the best of SER's knowledge, correct at the time of production. However, the precision or accuracy of SER data is usually based upon the original information supplied by the recorder and although SER strives to ensure all records are checked and validated, SER cannot be held responsible for any errors or omissions</p> <p>- The presence of a marked boundary within SER information does not imply any right of public access.</p>	Staffordshire Ecological Record	Copyright © Staffordshire Ecological Record Partnership, (2013).
Site of Borough (Grade I) Importance for Nature Conservation (SBI.I)	SINCs are designated by a panel of local ecological professionals. This is a non-statutory designation, although SINCs are still afforded a high level of protection within the planning system. Development that negatively impacts on a SINC will only be permitted in exceptional circumstances and where mitigation can be proven from the beginning. Sites of Borough Importance (Grade I) are selected from candidates within each borough, so ensuring that borough has some sites identified.	Greenspace Information for Greater London (GiGL)	GiGL data [2013].
Site of Borough (Grade II) Importance for Nature Conservation (SBI.II)	SINCs are designated by a panel of local ecological professionals. This is a non-statutory designation, although SINCs are still afforded a high level of protection within the planning system. Development that negatively impacts on a SINC will only be permitted in exceptional circumstances and where mitigation can be proven from the beginning. Sites of Borough Importance (Grade II) are selected from candidates within each borough, so ensuring that borough has some sites identified.	Greenspace Information for Greater London (GiGL)	GiGL data (2013).

Legend features	Definition	Source	Copyright
Site of Importance for Nature Conservation (SINC)	Also known as Local Wildlife Sites, these sites have a 'substantive nature conservation value'. They are defined areas, identified and selected locally for their nature conservation value, based on important, distinctive and threatened habitats and species with a national, regional and (importantly) a local context.	EcoRecord	Licensed in accordance with PSMA Crown Copyright and database rights 2012 Ordnance Survey Licence Number 1000049190.
Site of Local Importance for Nature Conservation (SLINC)	Also known as Local Wildlife Sites, these sites have a 'substantive nature conservation value'. They are defined areas, identified and selected locally for their nature conservation value, based on important, distinctive and threatened habitats and species with a national, regional and (importantly) a local context. The system in operation in London identifies three grades of SINC: Sites of Metropolitan Importance (SMI); Sites of Borough Importance (SBI); and Sites of Local Importance (SLI).	EcoRecord Greenspace Information for Greater London (GiGL)	Licensed in accordance with PSMA Crown Copyright and database rights 2012 Ordnance Survey Licence Number 1000049190. GiGL data (2013).
Site of Metropolitan Importance for Nature Conservation (SMI)	Sites of Metropolitan Importance are selected on a London-wide basis. These come under the umbrella designation of SINC's which are designated by a panel of local ecological professionals. This is a non-statutory designation, although SINC's are still afforded a high level of protection within the planning system. Development that negatively impacts on a SINC will only be permitted in exceptional circumstances and where mitigation can be proven from the beginning. Sites of Metropolitan Importance are selected on a London-wide basis.	Greenspace Information for Greater London (GiGL)	Licensed in accordance with PSMA Crown Copyright and database rights 2012 Ordnance Survey Licence Number 1000049190. GiGL data (2013).
Site of Special Scientific Interest (SSSI)	A Site of Special Scientific Interest (SSSI) is the land notified as an SSSI under the Wildlife and Countryside Act (1981), as amended.	Natural England	© Natural England copyright 2013 Contains Ordnance Survey data © Crown copyright and database right 2013. All rights reserved. Ordnance Survey Licence number 100022021. http://www.naturalengland.org.uk/Images/open-government-licence-NE-OS_tcm6-30743.pdf
Terrestrial invertebrate: Terrestrial invertebrate survey extent	Extent of terrestrial invertebrate survey.	High Speed Two (HS2) Ltd	
Water body	Based on Ordnance Survey Vector Map District.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.
Water vole: Water vole survey undertaken – presence confirmed Water vole survey undertaken – assumed absent Watercourse potentially suitable for water vole – no or limited access for survey	Extent of water vole survey. Those areas where access was available either had confirmed presence or water voles were assumed absent.	High Speed Two (HS2) Ltd	
Watercourse	The Detailed River Network (DRN) is the only large-scale, accurate and fully attributed digital river centreline covering England and Wales.	Environment Agency	Contains Environment Agency information © Environment Agency and database right.
White-clawed crayfish: Manual search and/or trapping conducted and presence confirmed Manual search and/or trapping conducted and assumed absent Site identified as potentially suitable but no access available	Location where white-clawed crayfish survey was conducted. Location categorised as to whether presence was confirmed, assumed absent or no access was available.	High Speed Two (HS2) Ltd	
Woodland (not verified by survey) Woodland (verified by survey)	Woodland areas derived from Ordnance Survey mastermap data.	Ordnance Survey	© Crown Copyright and database rights 2013 Ordnance Survey Licence Number 100049190.

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-01 – Designated Sites



Map Series Information:

This map series shows statutory and non-statutory sites for nature conservation located in the vicinity of the land required for the construction of the Proposed Scheme. They also show the location of Nature Reserves of the RSPB and Wildlife Trusts, and ancient woodland.

Note: Not all data layers in the legend are represented on every map.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary

- Map sheets included in this community forum
- Map sheets not included in this community forum

Map Number EC-01-INDEX-CFA26

Map Name Index Map of:
Designated Sites

Community Forum Area CFA26:
Washwood Heath to Curzon Street



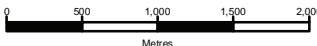
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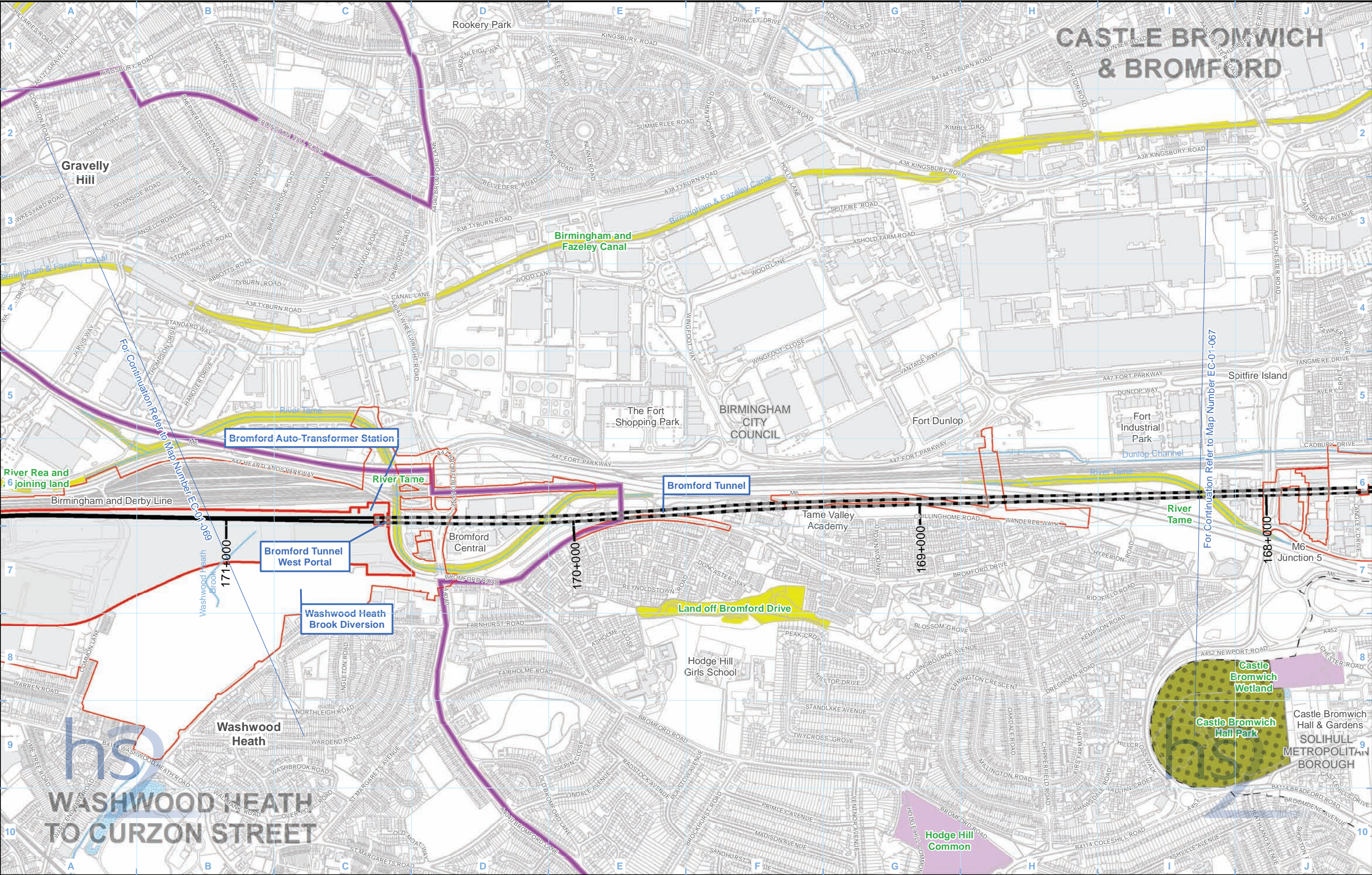
Doc Number: C254-ARP-EV-MAP-040-561004-P06.00



Scale at A3: 1:50,000



Date: 25/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

County boundary

District/Borough boundary

Watercourse

Water body

Site of Special Scientific Interest (SSSI)

Local Nature Reserve (LNR)

Local Wildlife Site (LWS)

Site of Importance for Nature Conservation (SINC)

Site of Local Importance for Nature Conservation (SLINC)

Nature reserve

Ancient Woodland

N.B. Due to the overlapping nature of some ecological designations, and the range of different site designations that occur across the route, individual designations may on occasion be obscured. In all cases where an area of land is covered by more than one ecological designation, as a minimum the ecological designation of highest value is visible.

Map Number

EC-01-068b

Map Name

Designated Sites

Community Forum Area CFA26:

Washwood Heath to Curzon Street

hs2

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Scale at A3: 1:10,000

0

100

200

300

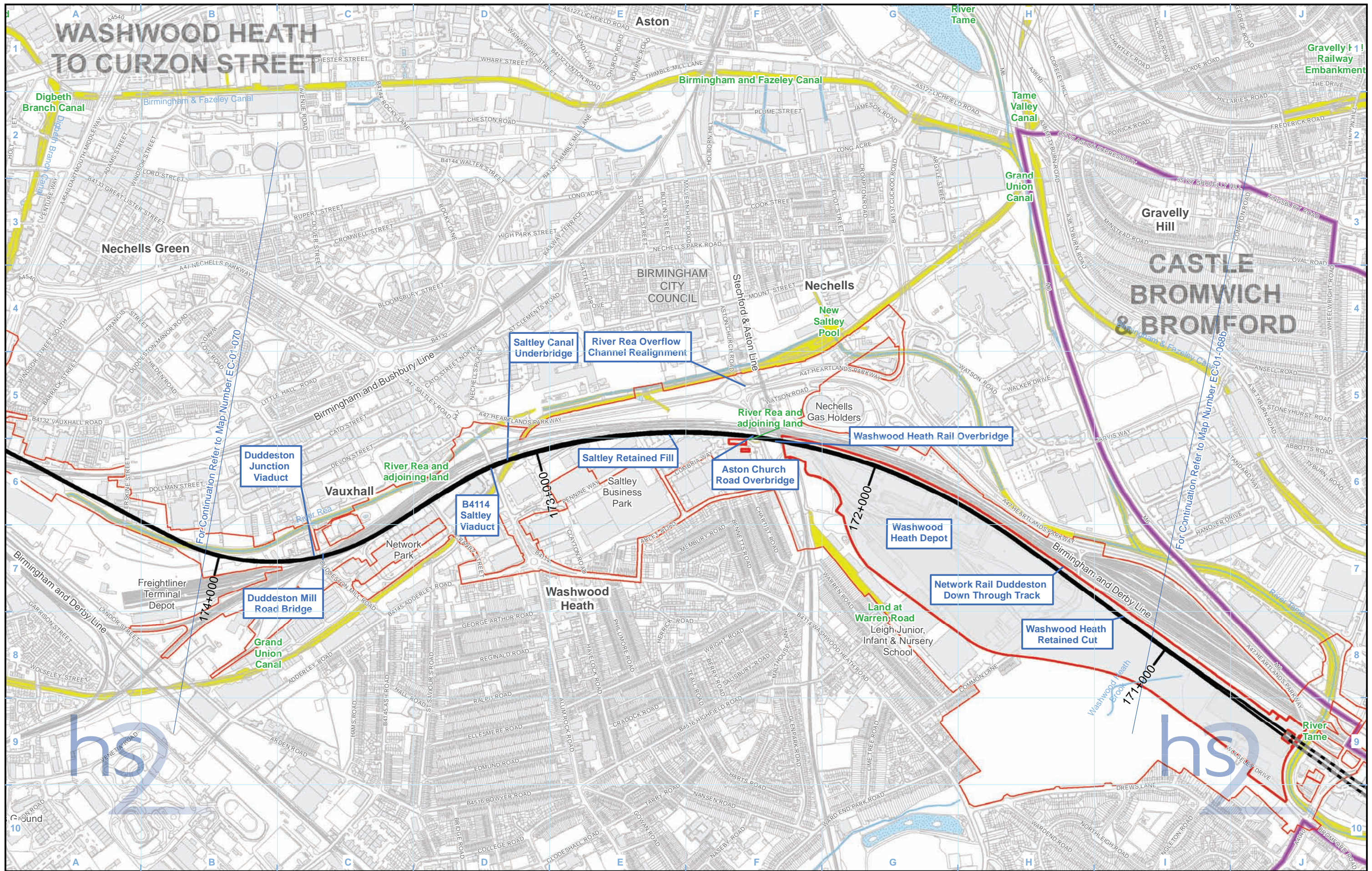
400

Metres

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Doc Number: C254-ARP-EV-MAP-040-061168-P06.00

Date: 28/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

County boundary

District/Borough boundary

Watercourse

Water body

Site of Special Scientific Interest (SSSI)

Local Nature Reserve (LNR)

Local Wildlife Site (LWS)

Site of Importance for Nature Conservation (SINC)

Site of Local Importance for Nature Conservation (SLINC)

Nature reserve

Ancient Woodland

N.B. Due to the overlapping nature of some ecological designations, and the range of different site designations that occur across the route, individual designations may on occasion be obscured. In all cases where an area of land is covered by more than one ecological designation, as a minimum the ecological designation of highest value is visible.

Map Number

EC-01-069

Map Name

Designated Sites

Community Forum Area CFA26:

Washwood Heath to Curzon Street

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Scale at A3: 1:10,000

0

100

200

300

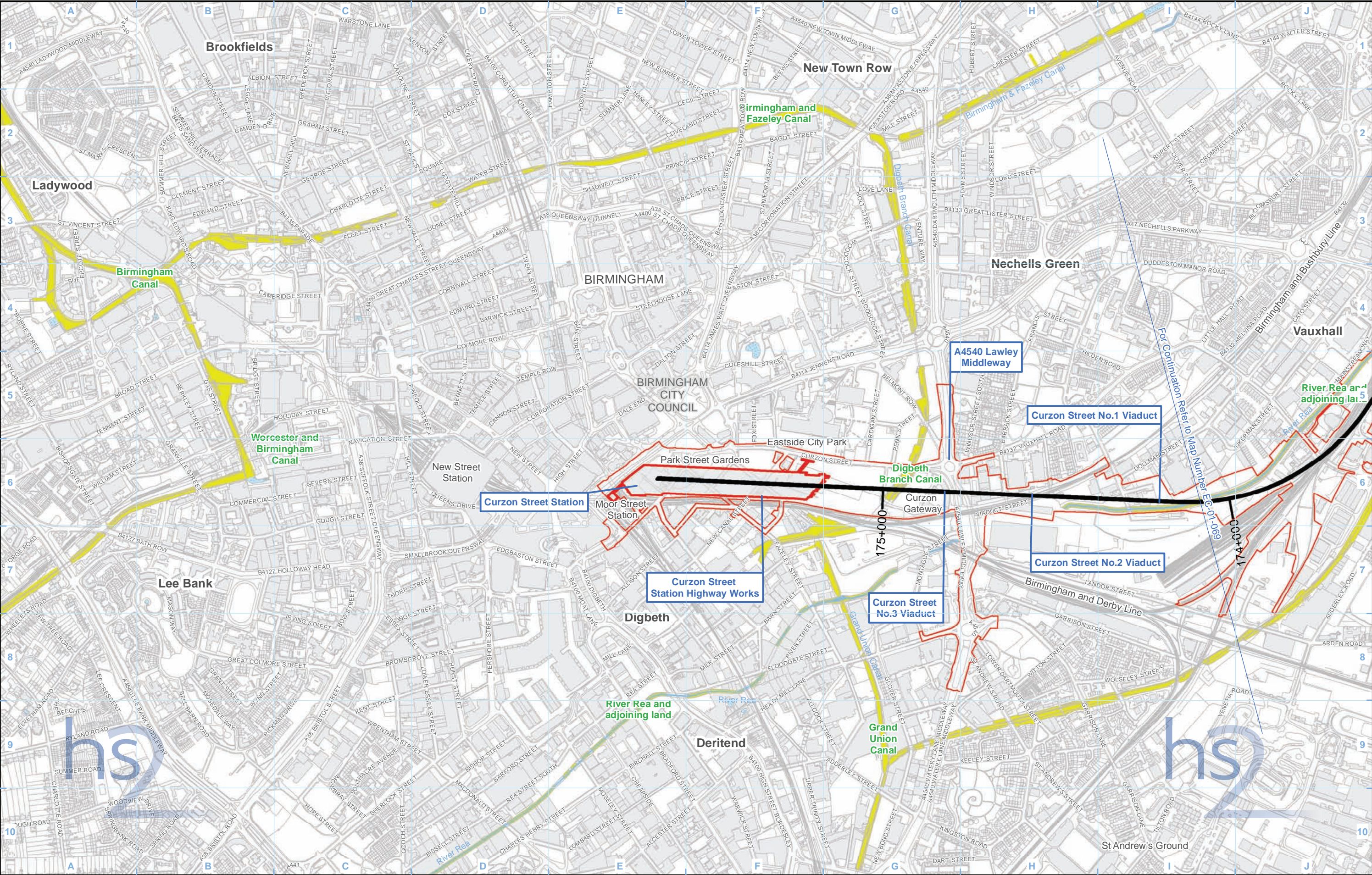
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Metres

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Doc Number: C254-ARP-EV-MAP-040-061069-P06.00

Date: 28/10/13



Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

County boundary

District/Borough boundary

Watercourse

Water body

Site of Special Scientific Interest (SSSI)

Local Nature Reserve (LNR)

Local Wildlife Site (LWS)

Site of Importance for Nature Conservation (SINC)

Site of Local Importance for Nature Conservation (SLINC)

Nature reserve

Ancient Woodland

N.B. Due to the overlapping nature of some ecological designations, and the range of different site designations that occur across the route, individual designations may on occasion be obscured. In all cases where an area of land is covered by more than one ecological designation, as a minimum the ecological designation of highest value is visible.

Map Number

EC-01-070

Map Name

Designated Sites

Community Forum Area CFA26:
Washwood Heath to Curzon Street

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Scale at A3: 1:10,000

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Metres

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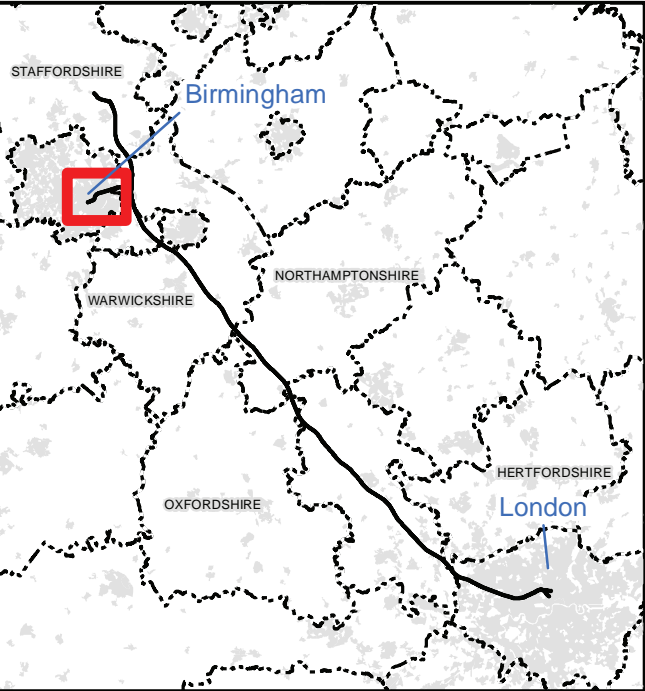
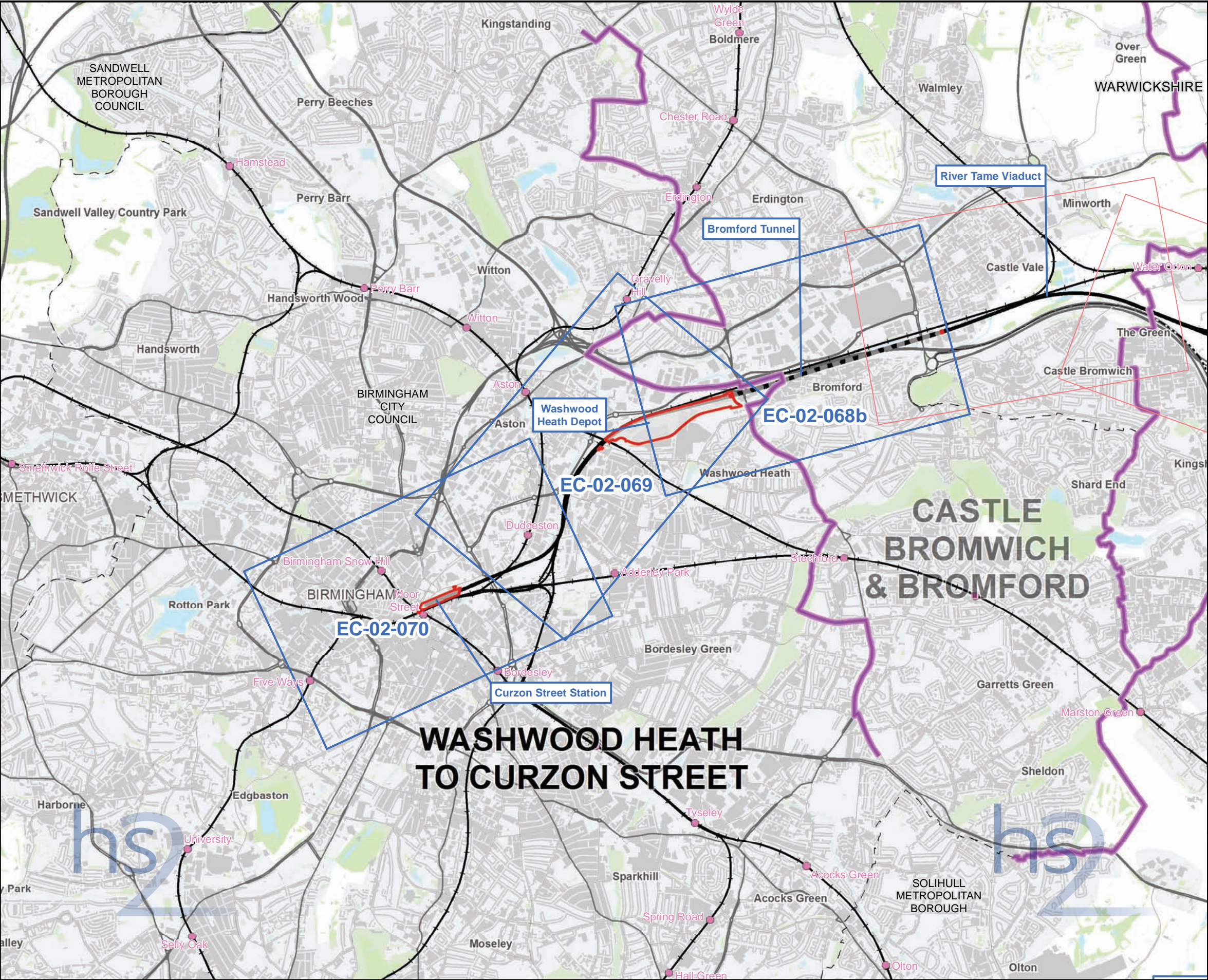
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Date: 28/10/13

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-02 – Phase 1 Habitat (1:10,000)



Map Series Information:

This map series shows Phase 1 habitat survey information for land required and in the vicinity of the Proposed Scheme at a scale of 1:10,000. Where it has not been possible to gain access for field survey, the information is based on available desk study and interpretation of aerial photography.

Note: Not all data layers in the legend are represented on every map.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary

- Map sheets included in this community forum
- Map sheets not included in this community forum

Map Number EC-02-INDEX-CFA26

Map Name Index Map of:
Phase 1 Habitat (1:10,000)

Community Forum Area CFA26:
Washwood Heath to Curzon Street



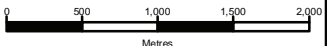
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Scale at A3: 1:50,000



Doc Number: C254-ARP-EV-MAP-040-562004-P06.00

Date: 25/10/13

Phase 1 Habitat survey legend

Habitat Areas

	Broadleaved woodland - semi-natural		Poor semi-improved grassland
	Broadleaved woodland - plantation		Bracken - continuous
	Coniferous woodland - semi-natural		Bracken - scattered
	Coniferous woodland - plantation		Upland species-rich ledges
	Mixed woodland - semi-natural		Other tall herb and fern - ruderal
	Mixed woodland - plantation		Other tall herb and fern - non ruderal
	Scrub - dense/continuous		Dry dwarf shrub heath - acid
	Scrub - scattered		Lichen/bryophyte heath
	Broadleaved parkland/scattered trees		Dry heath/acid grassland
	Coniferous parkland/scattered trees		Wet modified bog
	Mixed parkland/scattered trees		Fen - valley mire
	Broadleaved woodland - recently felled		Swamp
	Mixed woodland - recently felled		Marginal and inundation - inundation vegetation
	Acid grassland - unimproved		Standing water
	Acid grassland - semi-improved		Standing water - eutrophic
	Neutral grassland - unimproved		Standing water - mesotrophic
	Neutral grassland - semi-improved		Running water
	Calcareous grassland - unimproved		Limestone pavement
	Calcareous grassland - semi-improved		Other exposure - basic
	Improved grassland		Cave
	Marsh/marshy grassland		Quarry

	Spoil
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

Linear Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

Point Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Bracken - scattered

Map Name
EC-02 - Legend

Map Name
EC-02 - Phase 1 Habitat Survey
Legend

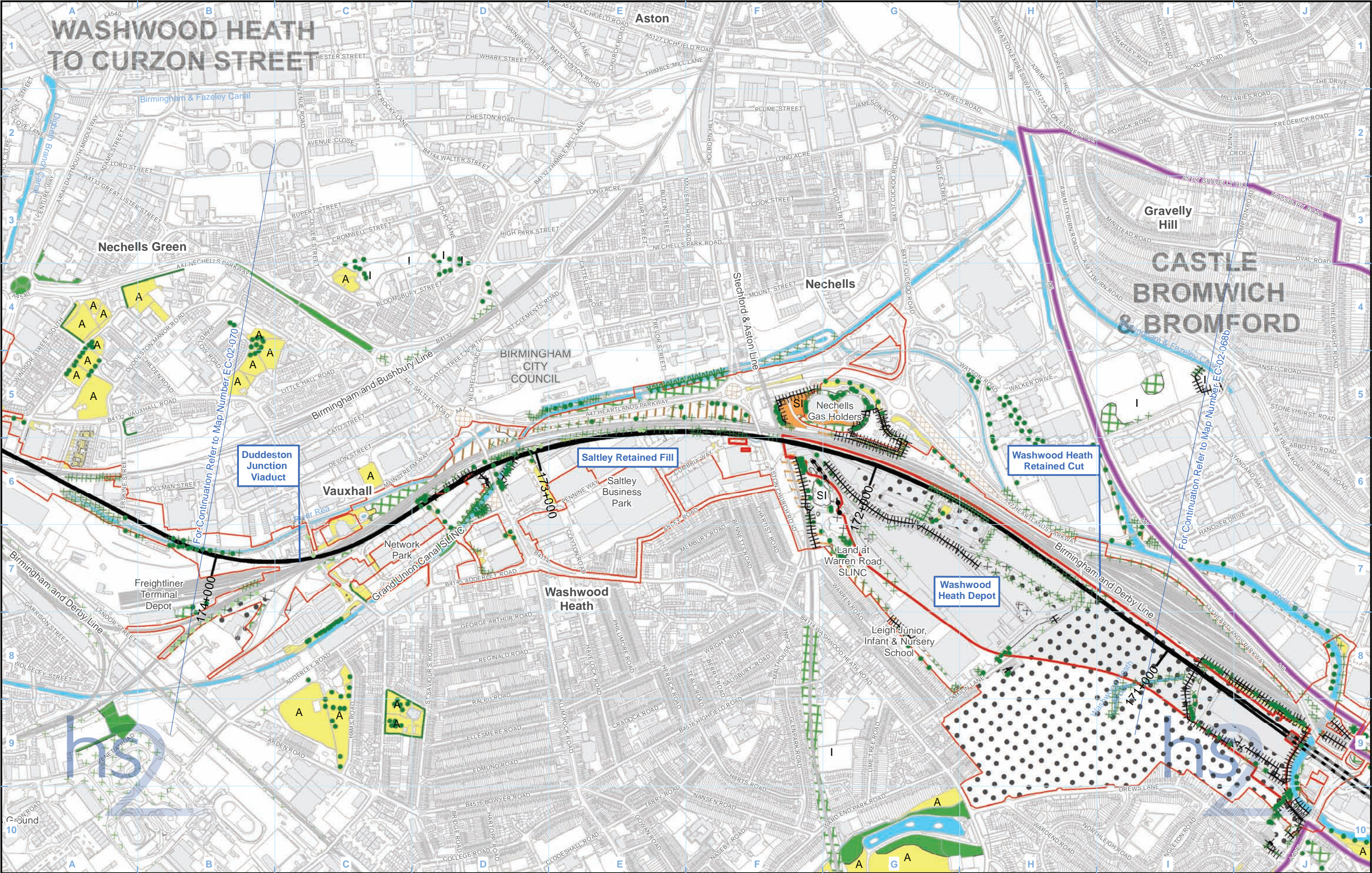


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Date: 26/09/13



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page

Map Number

EC-02-069

Map Name

Phase 1 Habitat
(1:10,000)

Community Forum Area CFA26:
Washwood Heath to Curzon Street

hs2

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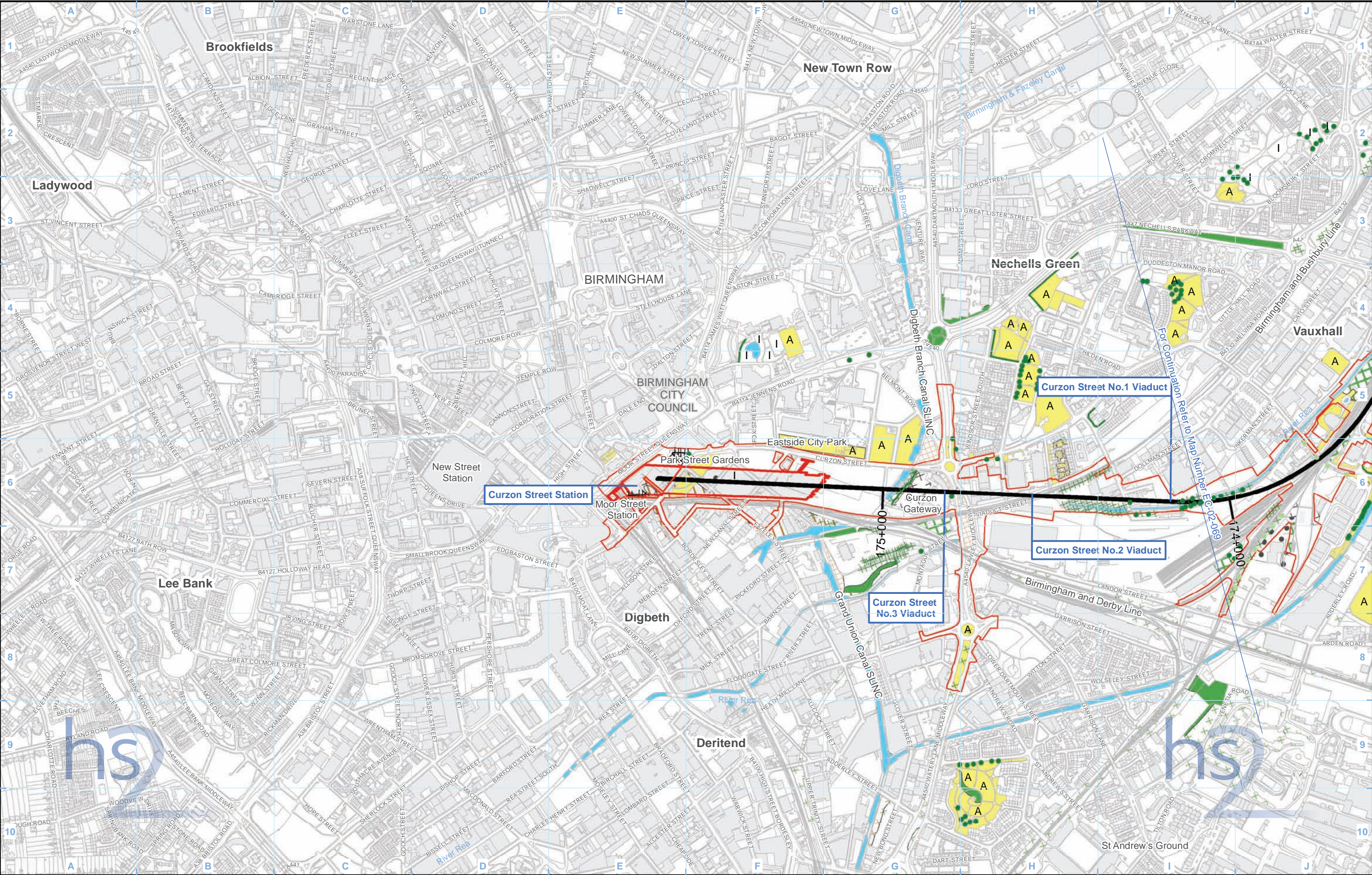
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Doc Number: C254-ARP-EV-MAP-040-062069-P06.00

Scale at A3: 1:10,000

0 100 200 300 400
Metres

Date: 28/10/13



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- County boundary
- District/Borough boundary

For full legend please refer to EC-02 - Legend page


Map Number

EC-02-070


Map Name

Phase 1 Habitat
(1:10,000)


Community Forum Area CFA26:
Washwood Heath to Curzon Street



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Scale at A3: 1:10,000



0 100 200 300 400
Metres

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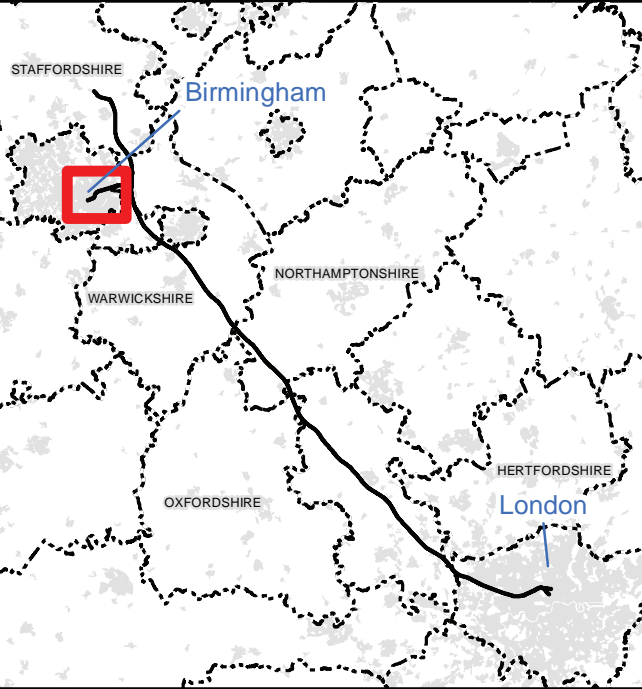
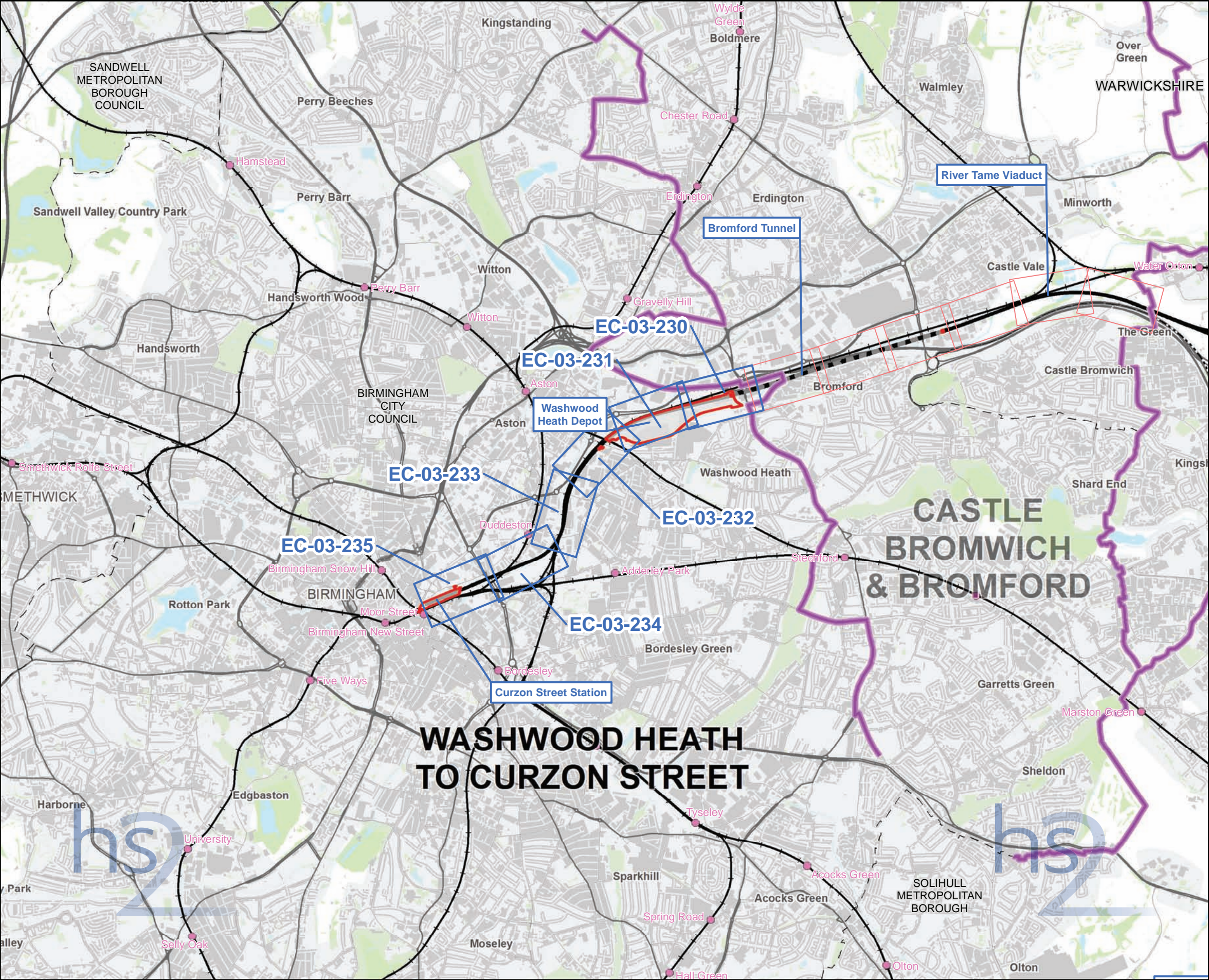
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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-03 – Phase 1 Habitat (1:2,500)



Map Series Information:

This map series shows Phase 1 habitat survey information for land required and in the vicinity of the construction of the Proposed Scheme at a scale of 1:2,500. Where it has not been possible to gain access for field survey the information is based on available desk study and interpretation of aerial photography. This map series is only provided at those locations where a larger scale is required.

Note: Not all data layers in the legend are represented on every map.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary

- Map sheets included in this community forum
- Map sheets not included in this community forum

Map Number EC-03-INDEX-CFA26

Map Name Index Map of:
Phase 1 Habitat (1:2,500)

Community Forum Area CFA26:
Washwood Heath to Curzon Street



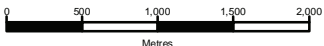
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Doc Number: C254-ARP-EV-MAP-040-563004-P06.00

Date: 25/10/13



















Phase 1 Habitat survey legend

Habitat Areas





	Broadleaved woodland - semi-natural		Poor semi-improved grassland
	Broadleaved woodland - plantation		Bracken - continuous
	Coniferous woodland - semi-natural		Bracken - scattered
	Coniferous woodland - plantation		Upland species-rich ledges
	Mixed woodland - semi-natural		Other tall herb and fern - ruderal
	Mixed woodland - plantation		Other tall herb and fern - non ruderal
	Scrub - dense/continuous		Dry dwarf shrub heath - acid
	Scrub - scattered		Lichen/bryophyte heath
	Broadleaved parkland/scattered trees		Dry heath/acid grassland
	Coniferous parkland/scattered trees		Wet modified bog
	Mixed parkland/scattered trees		Fen - valley mire
	Broadleaved woodland - recently felled		Swamp
	Mixed woodland - recently felled		Marginal and inundation - inundation vegetation
	Acid grassland - unimproved		Standing water
	Acid grassland - semi-improved		Standing water - eutrophic
	Neutral grassland - unimproved		Standing water - mesotrophic
	Neutral grassland - semi-improved		Running water
	Calcareous grassland - unimproved		Limestone pavement
	Calcareous grassland - semi-improved		Other exposure - basic
	Improved grassland		Cave
	Marsh/marshy grassland		Quarry

	Spoil
	Refuse-tip
	Cultivated/disturbed land - arable
	Cultivated/disturbed land - amenity grassland
	Cultivated/disturbed land - ephemeral/short perennial
	Introduced shrub
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank
	Caravan site
	Buildings
	Bare ground
	Other habitat

Linear Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Mixed parkland/scattered trees
	Upland species-rich ledges
	Marginal and inundation - marginal vegetation
	Running water
	Intact hedge - native species-rich
	Intact hedge - species-poor
	Defunct hedge - native species-rich
	Defunct hedge - species-poor
	Hedge with trees - native species-rich
	Hedge with trees - species-poor
	Fence
	Wall
	Dry ditch
	Boundary removed
	Earth bank

Point Habitats

	Scrub - scattered
	Broadleaved parkland/scattered trees
	Coniferous parkland/scattered trees
	Bracken - scattered

Map Name
EC-03 - Legend

Map Name
EC-03 - Phase 1 Habitat Survey
Legend

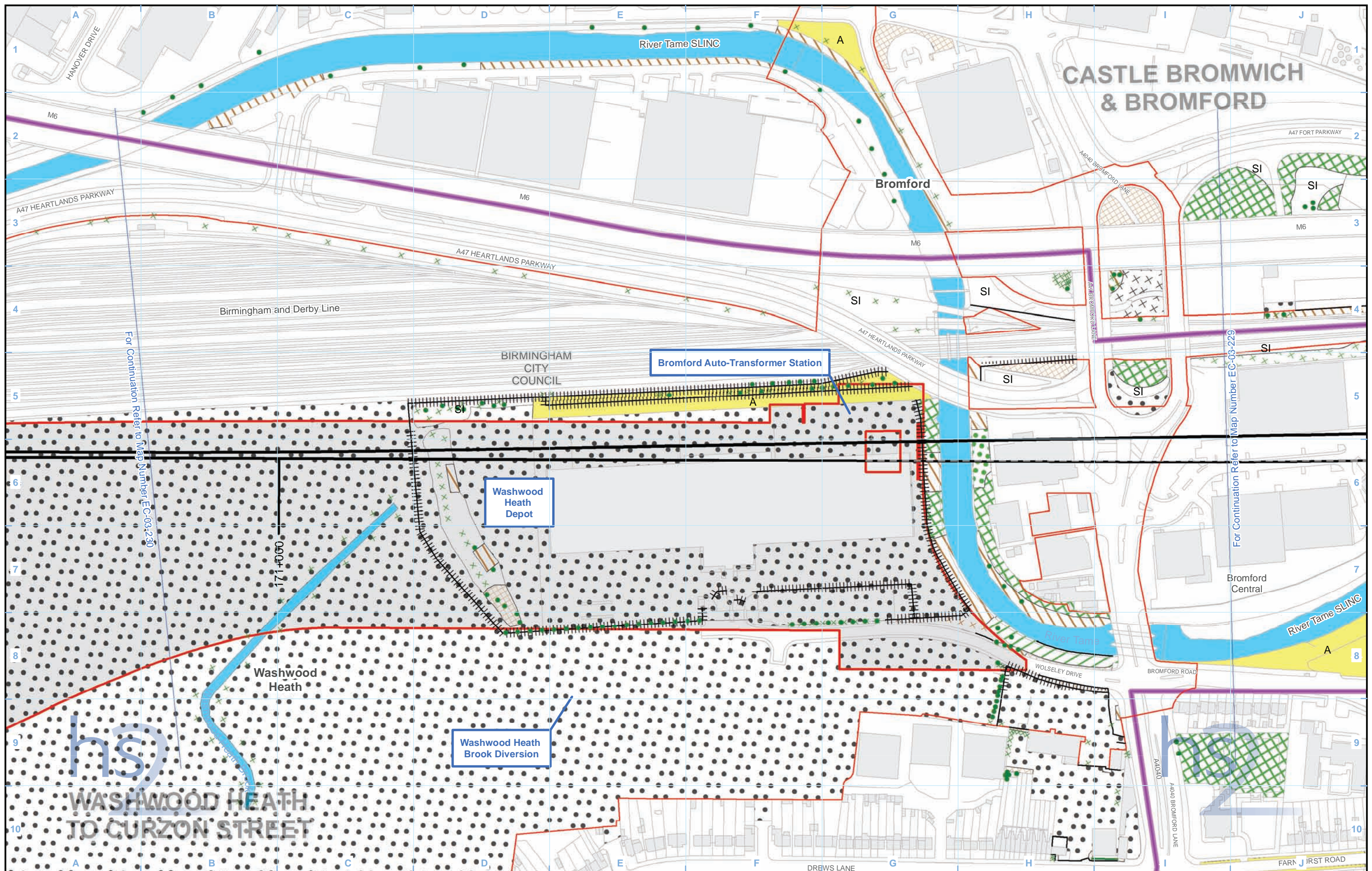


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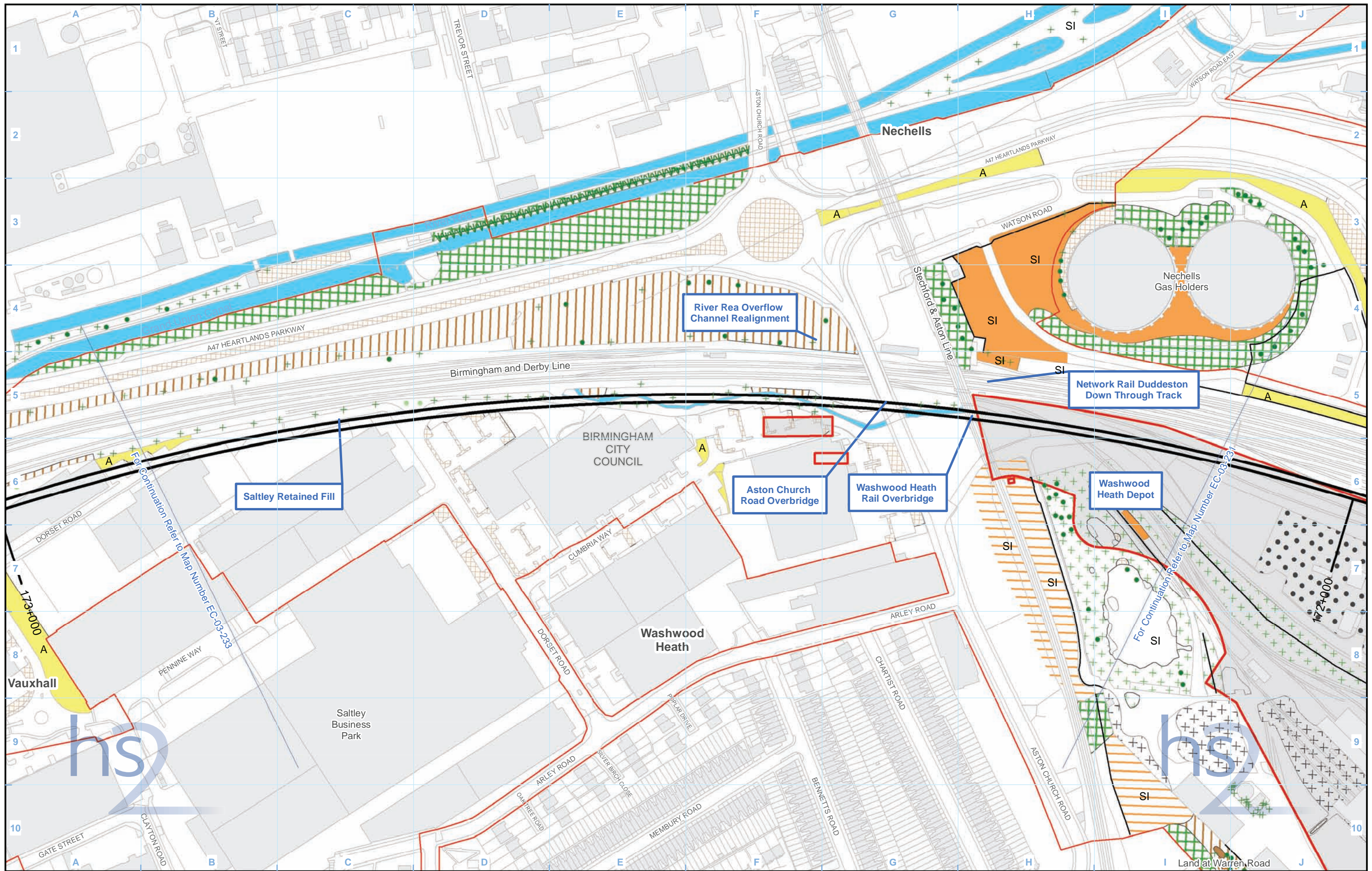
Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- District/Borough boundary

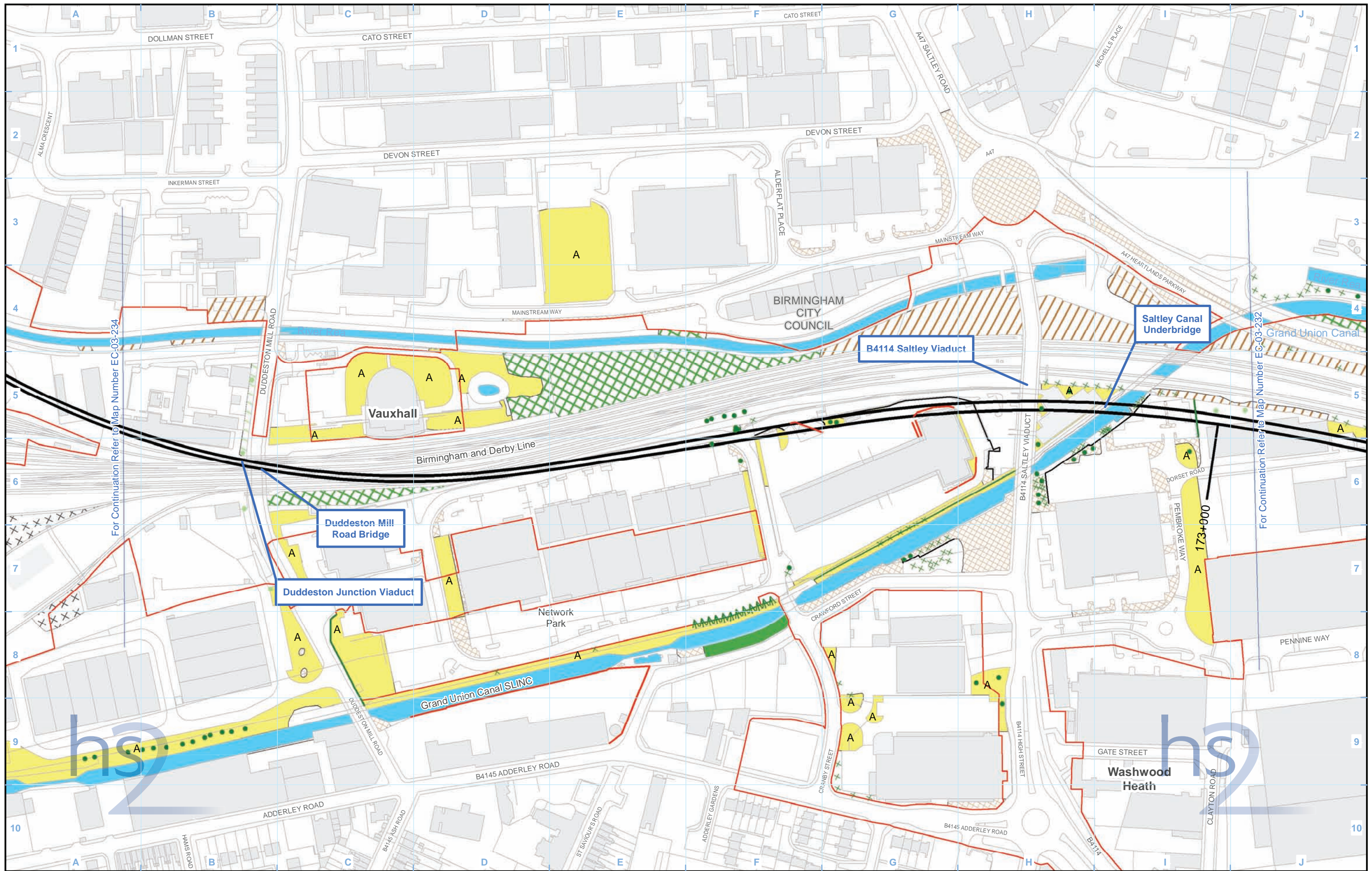
For full legend please refer to EC-03 - Legend page

Map Number	EC-03-230
Map Name	Phase 1 Habitat (1:2,500)
Community Forum Area CFA26: Washwood Heath to Curzon Street	

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Doc Number: C254-ARP-EV-MAP-040-063230-P06.00		Date: 25/10/13



Legend Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community forum boundary District/Borough boundary	For full legend please refer to EC-03 - Legend page <div> <div>Map Number</div> <div>EC-03-232</div> </div> <div> <div>Map Name</div> <div>Phase 1 Habitat (1:2,500)</div> </div> <div> <div>Community Forum Area CFA26:</div> <div>Washwood Heath to Curzon Street</div> </div>	<div> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</p> <p>© Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C254-ARP-EV-MAP-040-063232-P06.00</p> </div> <div> <p>Scale at A3: 1:2,500</p> <p>Metres</p> <p>Date: 25/10/13</p> </div>
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- District/Borough boundary

For full legend please refer to EC-03 - Legend page

Map Number	EC-03-233
Map Name	Phase 1 Habitat (1:2,500)
Community Forum Area CFA26: Washwood Heath to Curzon Street	




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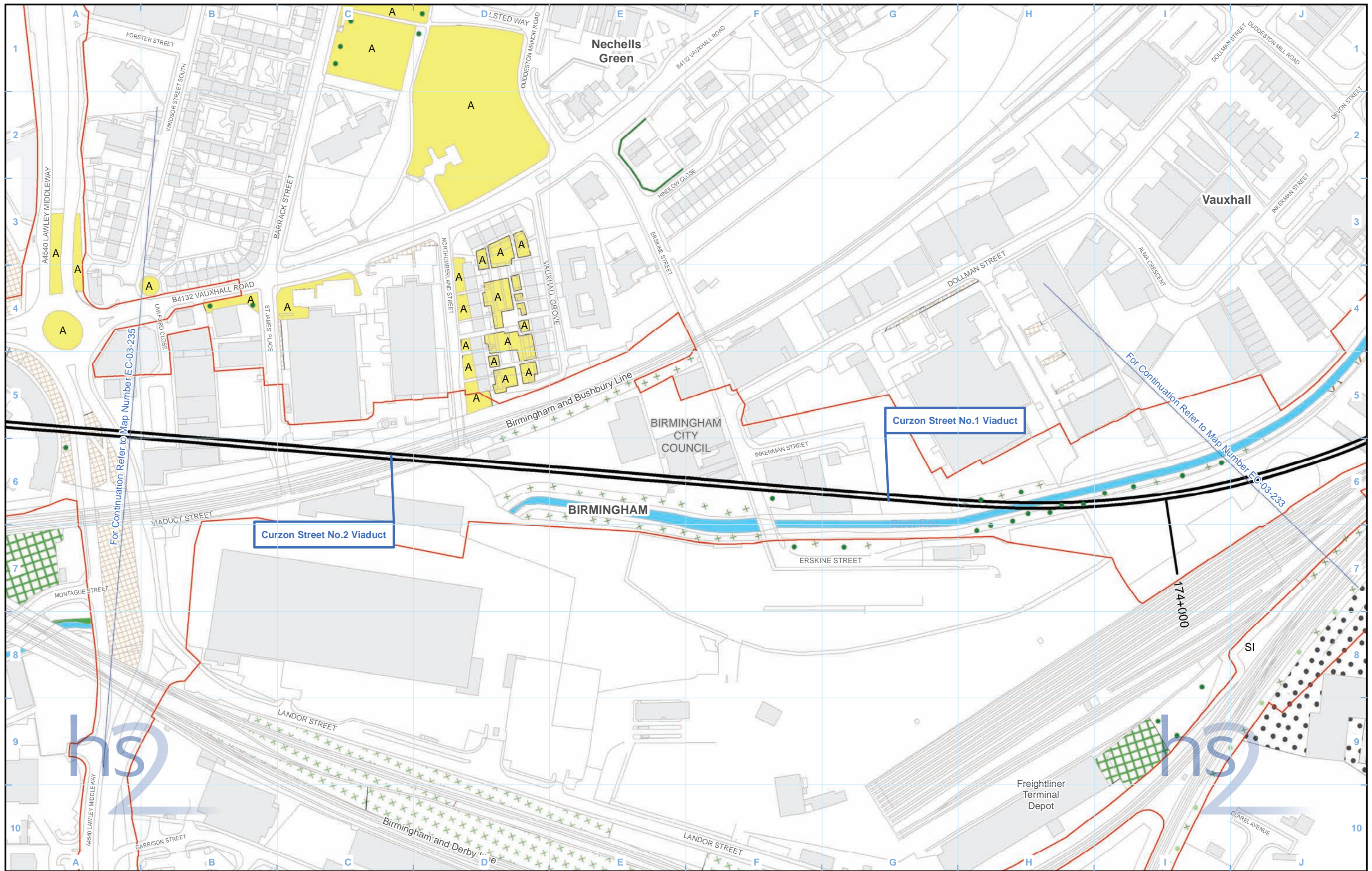
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Metres



Date: 25/10/13

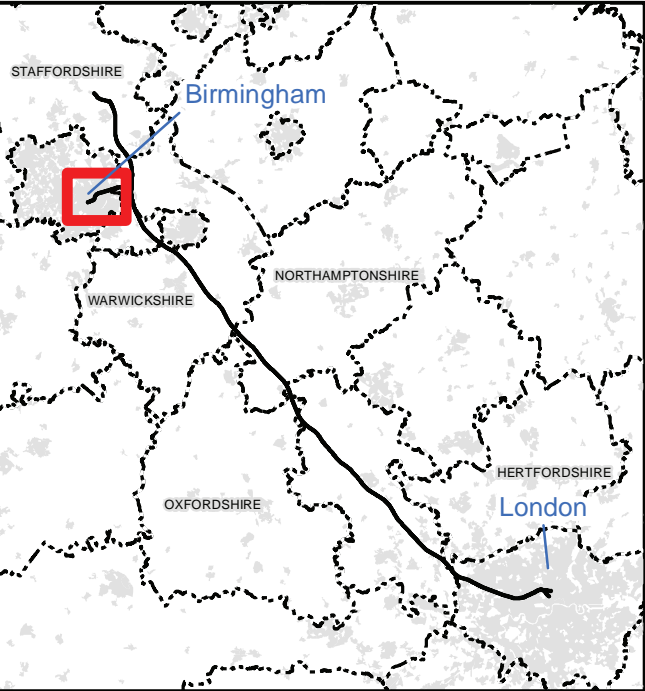
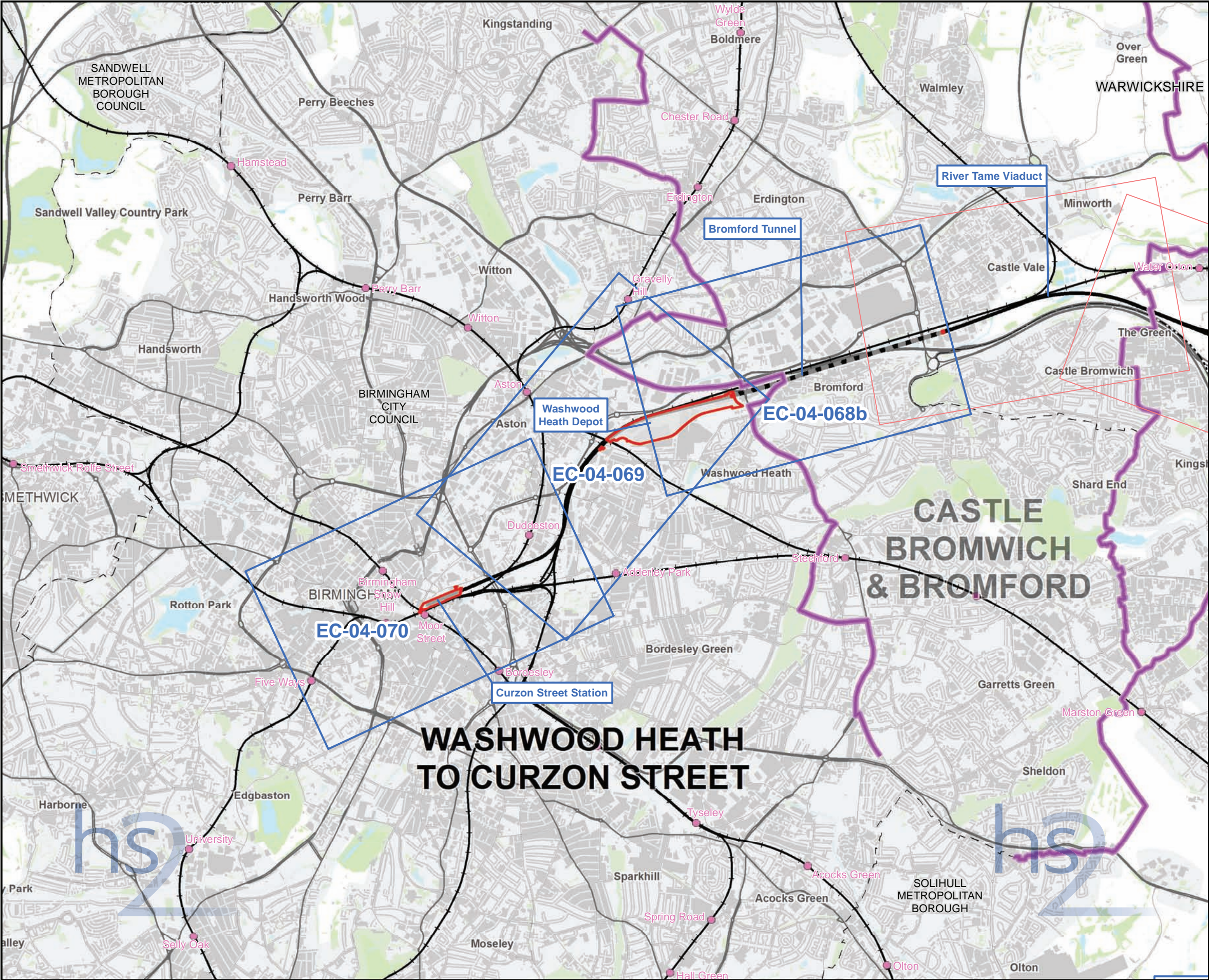


Legend <ul style="list-style-type: none">Route in tunnelRoute on surfaceDepot, station, headhouse or portal buildingLand potentially required during constructionCommunity forum boundaryDistrict/Borough boundary	For full legend please refer to EC-03 - Legend page	Map Number EC-03-234	<p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</p> <p>© Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190.</p> <p>Scale at A3: 1:2,500</p> <p>0 25 50 75 100 Metres</p> <p>Doc Number: C254-ARP-EV-MAP-040-063234-P06.00</p> <p>Date: 25/10/13</p>
		Map Name Phase 1 Habitat (1:2,500)	

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-04 – Amphibians



Map Series Information:

This map series shows the results of amphibian surveys conducted to inform the Environmental Assessment. It principally details the results of great crested newt surveys conducted. In addition it shows the location of those 'exceptional' populations of common amphibians recorded.

Note: Not all data layers in the legend are represented on every map.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary

- Map sheets included in this community forum
- Map sheets not included in this community forum

Map Number EC-04-INDEX-CFA26

Map Name Index Map of: Amphibians

Community Forum Area CFA26: Washwood Heath to Curzon Street



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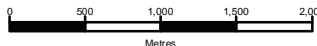
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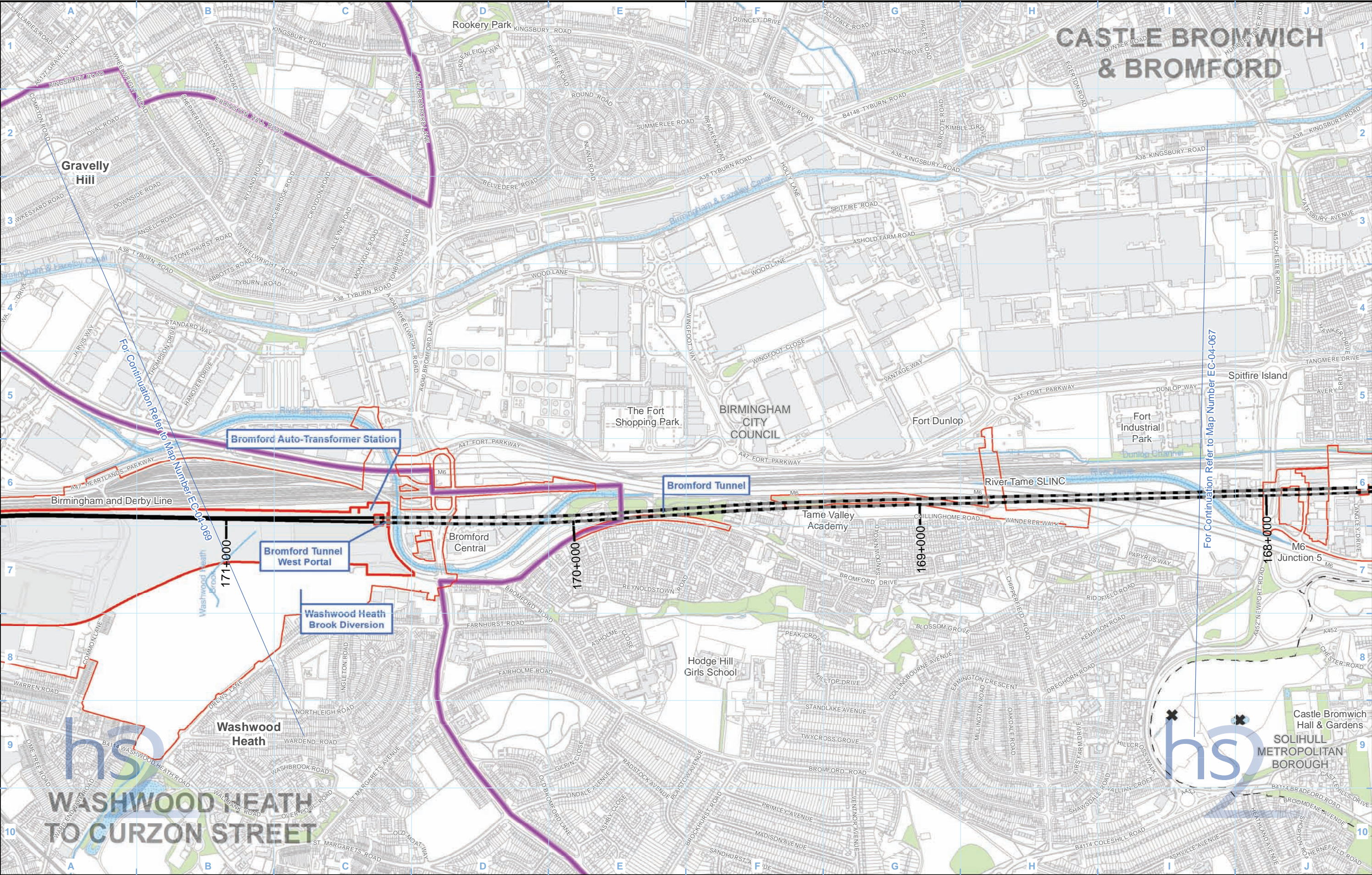
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Date: 25/10/13

Scale at A3: 1:50,000





- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community forum boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (not verified by survey)
 - Scoped out - no survey required

Map Number
EC-04-068b

Map Name
Amphibians

Community Forum Area CFA26:
Washwood Heath to Curzon Street

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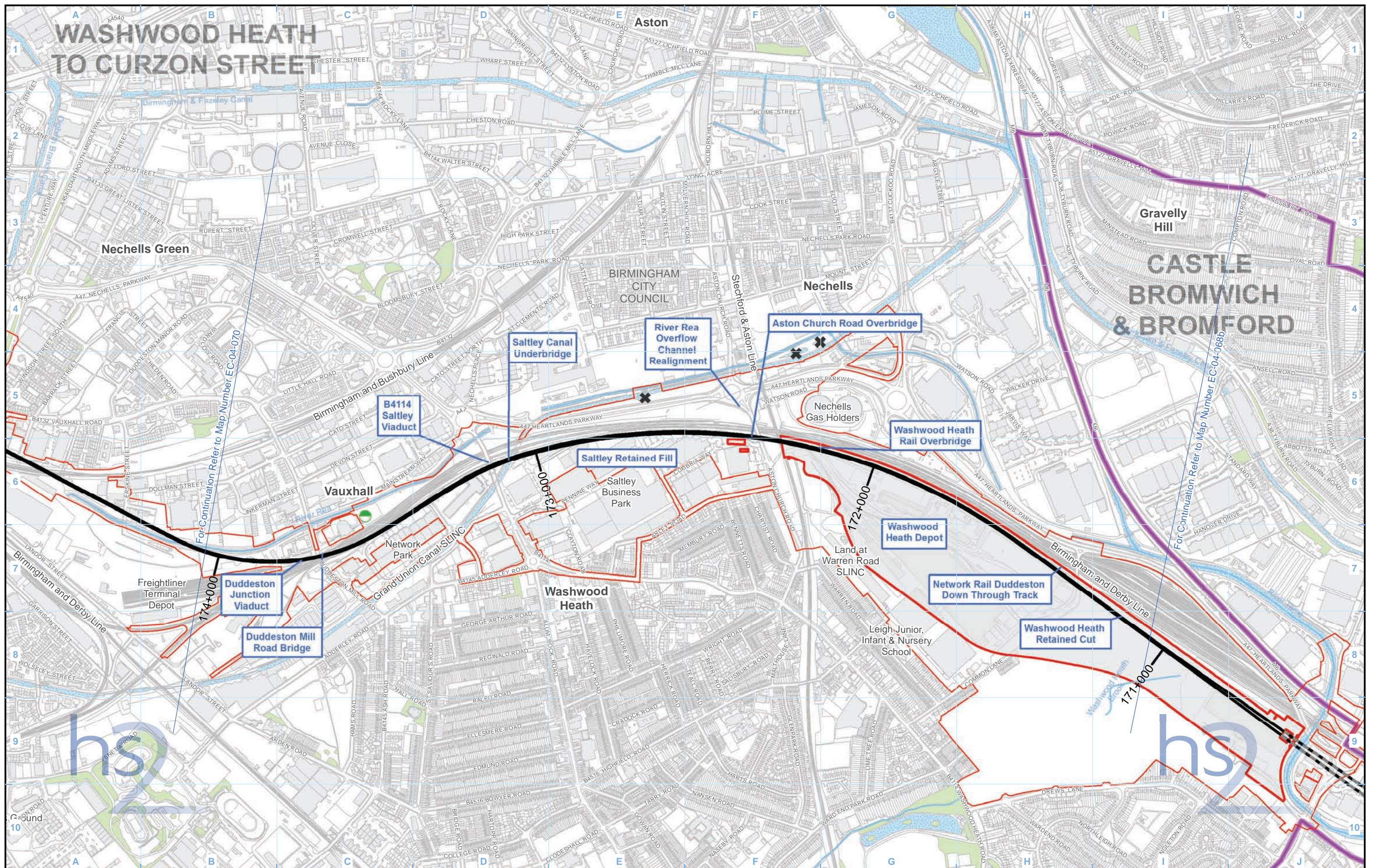
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Metres

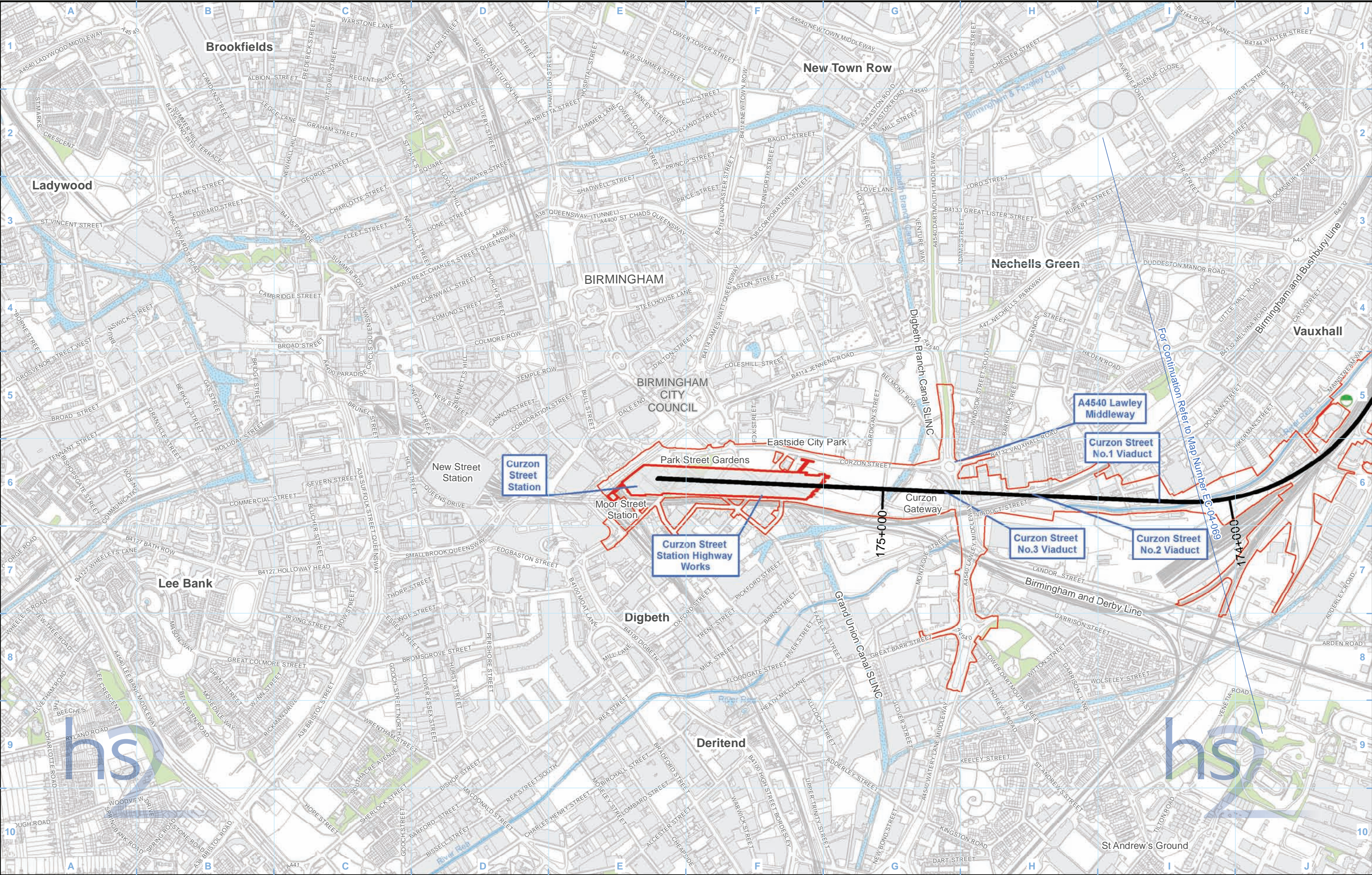
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Doc Number: C254-ARP-EV-MAP-040-064168-P06.00

Date: 28/10/13



<p>Legend</p> <div> <div> Route in tunnel Route on surface </div> <div> District/Borough boundary </div> <div> Scoped out - no survey required </div> </div> <div> <div> Depot, station, headhouse or portal building Water body </div> <div> Land potentially required during construction Woodland (not verified by survey) </div> <div> Community forum boundary Survey complete, Great Crested Newts assumed absent </div> <div> County boundary </div> </div>	<table border="1"> <tr> <td>Map Number</td> <td>EC-04-069</td> </tr> <tr> <td>Map Name</td> <td>Amphibians</td> </tr> <tr> <td colspan="2">Community Forum Area CFA26: Washwood Heath to Curzon Street</td> </tr> </table> <div> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: Eland House, Bressenden Place, London SW1E 5DU.</p> <p>© Crown copyright and database rights 2013. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C254-ARP-EV-MAP-040-064069-P06.00</p> <p>Date: 28/10/13</p> <p>Scale at A3: 1:10,000</p> </div>	Map Number	EC-04-069	Map Name	Amphibians	Community Forum Area CFA26: Washwood Heath to Curzon Street	
Map Number	EC-04-069						
Map Name	Amphibians						
Community Forum Area CFA26: Washwood Heath to Curzon Street							



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- County boundary

- District/Borough boundary
- Watercourse
- Water body
- Woodland (not verified by survey)
- Survey complete, Great Crested Newts assumed absent


Map Number

EC-04-070

Map Name

Amphibians

Community Forum Area CFA26:
Washwood Heath to Curzon Street




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Metres

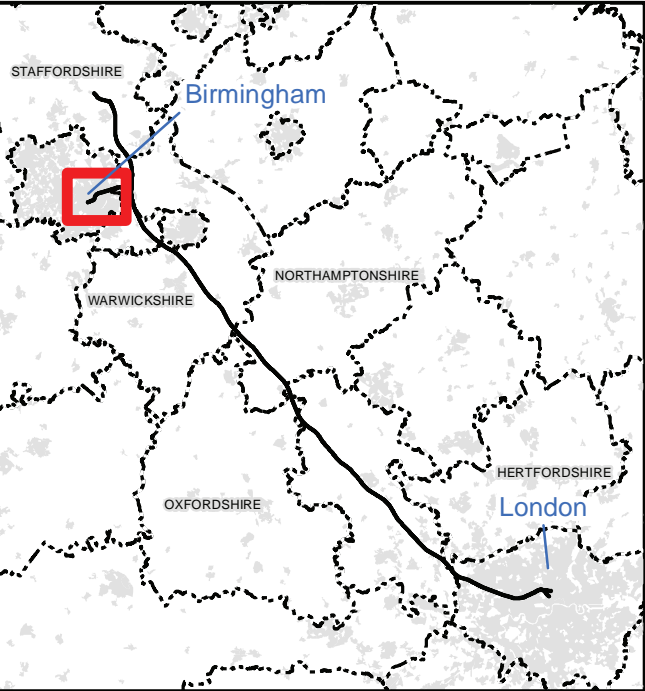
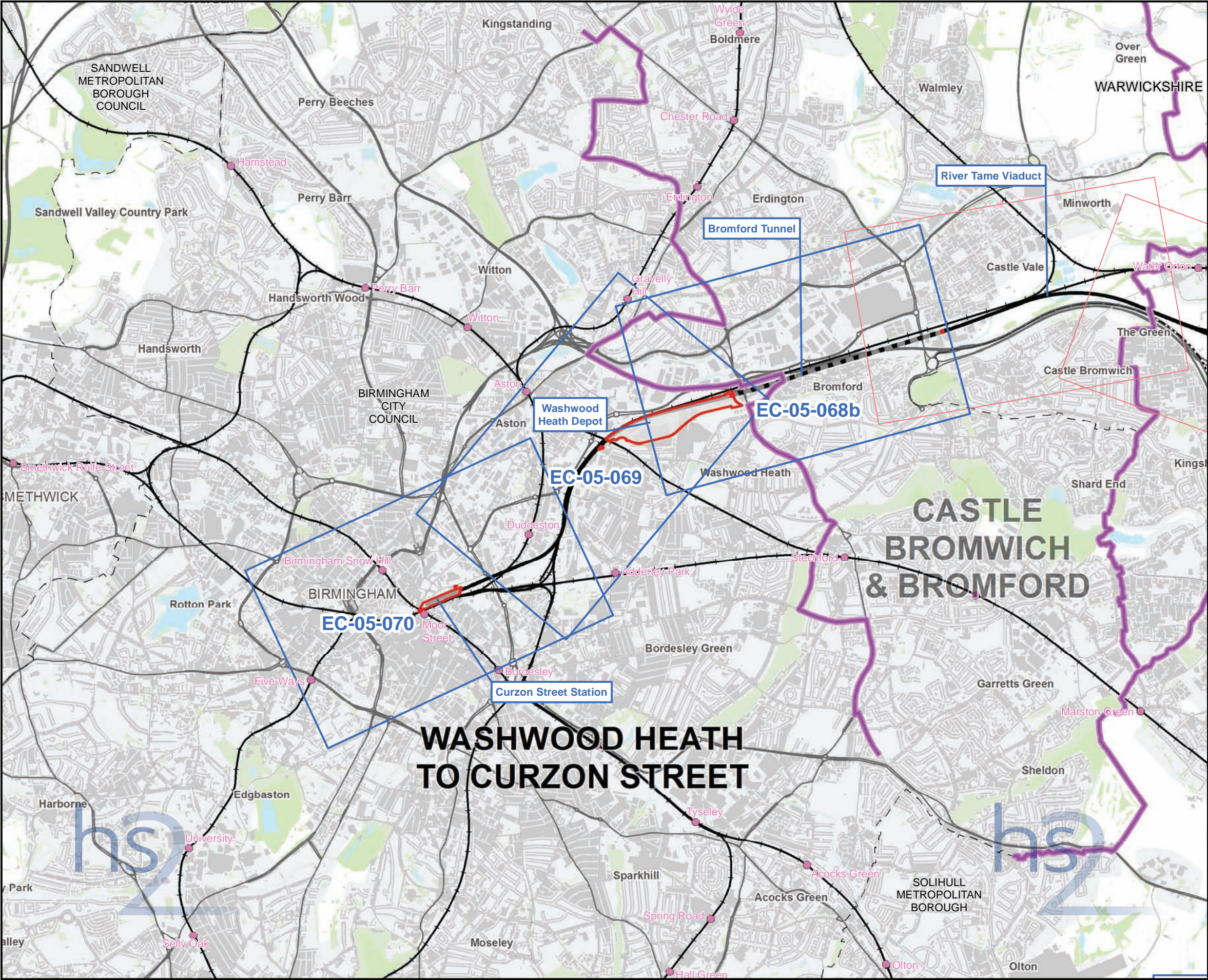


Date: 28/10/13

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-05 – Bats - Roost



Map Series Information:

This map series shows results of field surveys conducted to investigate the potential for trees and buildings/structures to support roosting bats.

It shows the location of roosts confirmed by field survey and features identified as having a high or moderate potential to support roosting bats.

Note: Not all data layers in the legend are represented on every map.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary

- Map sheets included in this community forum
- Map sheets not included in this community forum

Map Number	EC-05-INDEX-CFA26
Map Name	Index Map of: Bat - Roost
Community Forum Area CFA26: Washwood Heath to Curzon Street	



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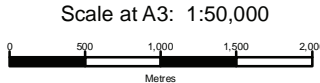


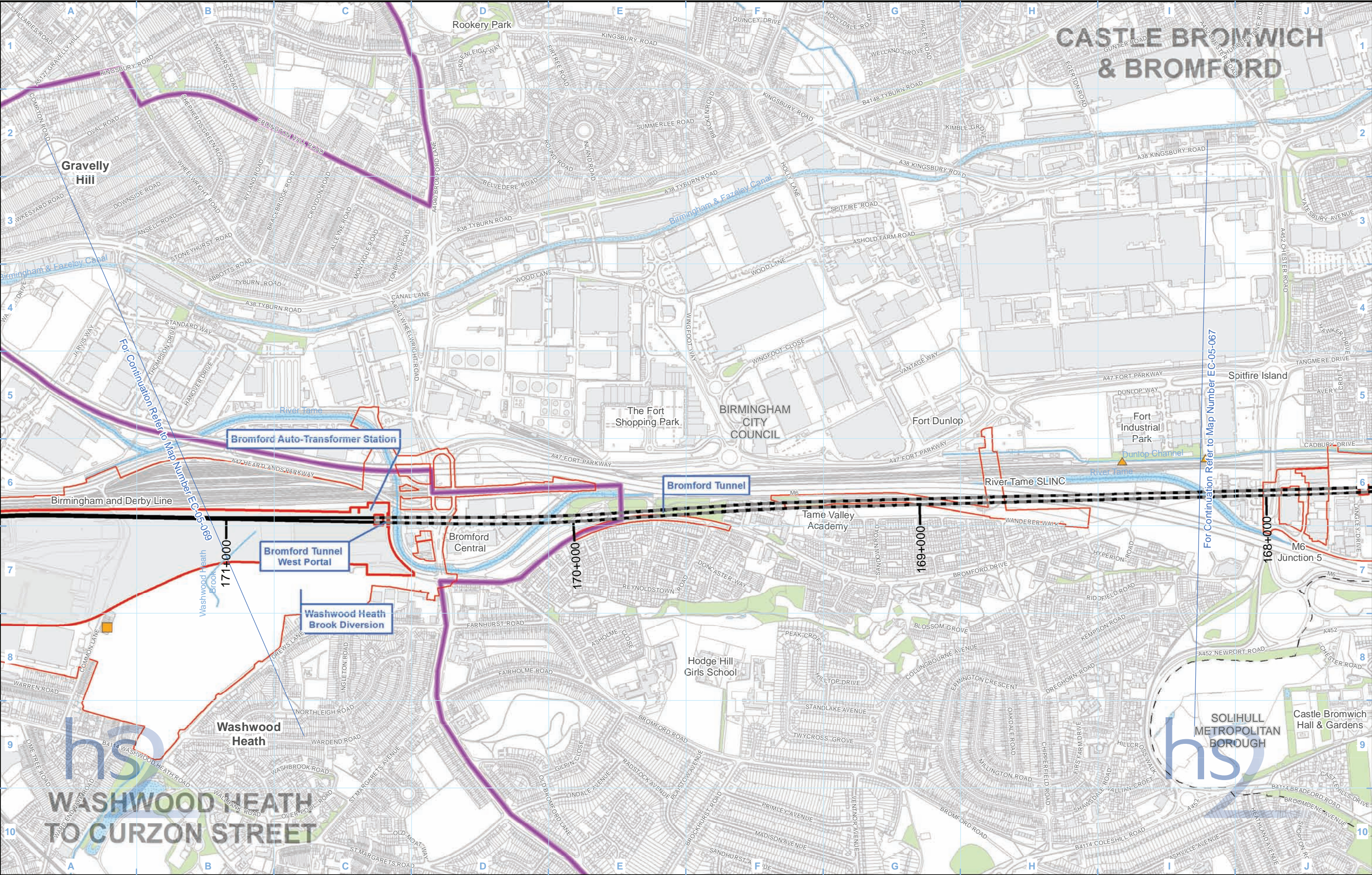
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Date: 25/10/13





Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

County boundary

District/Borough boundary

Watercourse

Water body

Woodland (not verified by survey)

Confirmed bat roost - trees:

Hibernation roost

Maternity roost

Other roost

Multiple roost types

Confirmed bat roost - buildings:

Hibernation roost

Maternity roost

Other roost

Multiple roost types

Potential to support roosting bats - trees:

High

Moderate

Potential to support roosting bats - buildings:

High

Moderate

Map Number

EC-05-068b

Map Name

Bat - Roost

Community Forum Area CFA26:
Washwood Heath to Curzon Street

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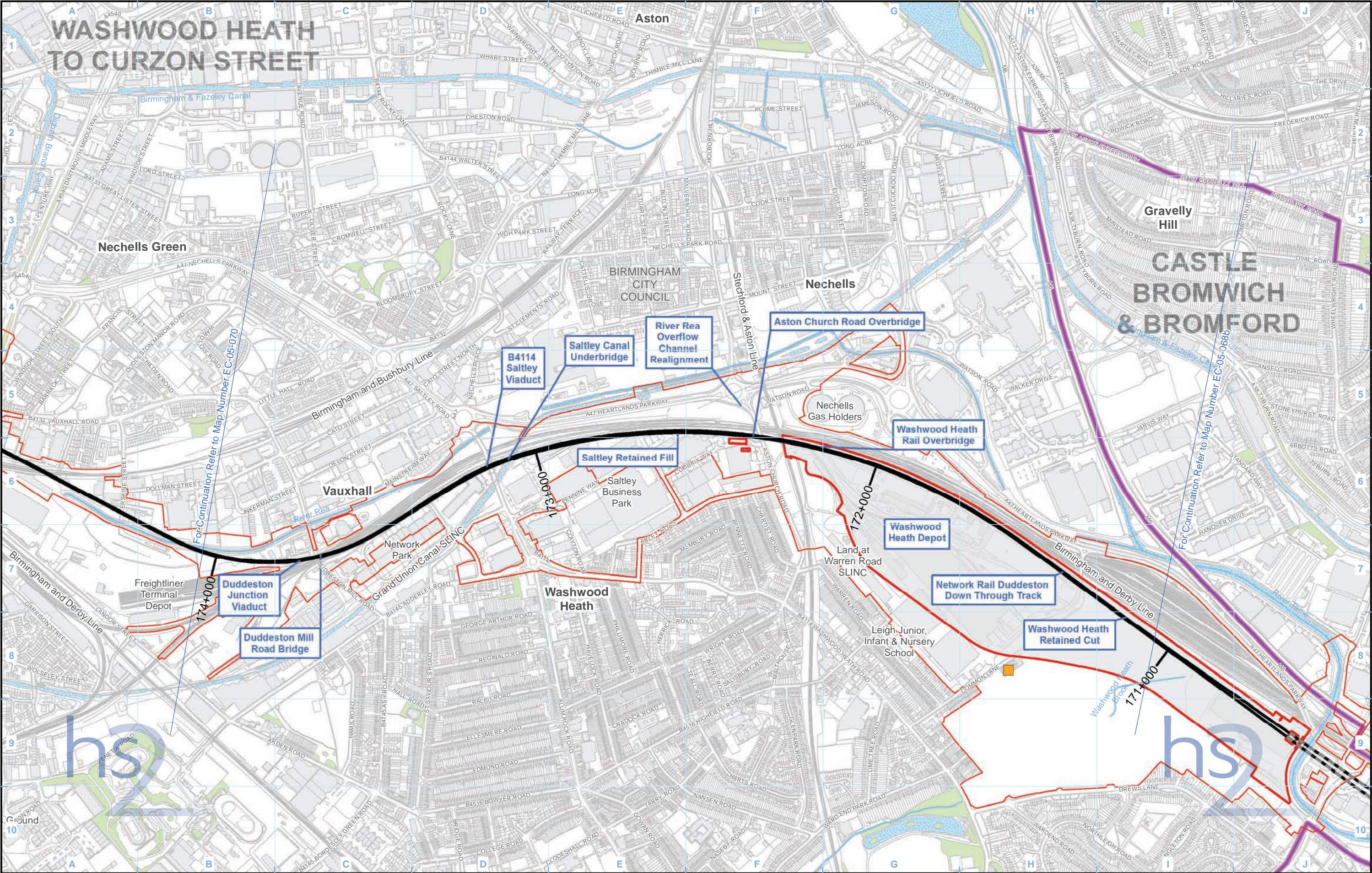
Metres

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Doc Number: C254-ARP-EV-MAP-040-065168-P06.00

North Arrow

Date: 28/10/13



Legend		Confirmed bat roost - trees:		Confirmed bat roost - buildings:		Potential to support roosting bats - trees:	
Route in tunnel	Watercourse	◆ Hibernation roost	◆ Hibernation roost	▲ High			
Route on surface	Water body	★ Maternity roost	★ Maternity roost	▲ Moderate			
Depot, station, headhouse or portal building	Woodland (not verified by survey)	● Other roost	● Other roost	■ High			
Land potentially required during construction		✳ Multiple roost types	✳ Multiple roost types	■ Moderate			
Community forum boundary							
County boundary							
District/Borough boundary							

Map Number	EC-05-069
Map Name	Bat - Roost
Community Forum Area CFA26: Washwood Heath to Curzon Street	

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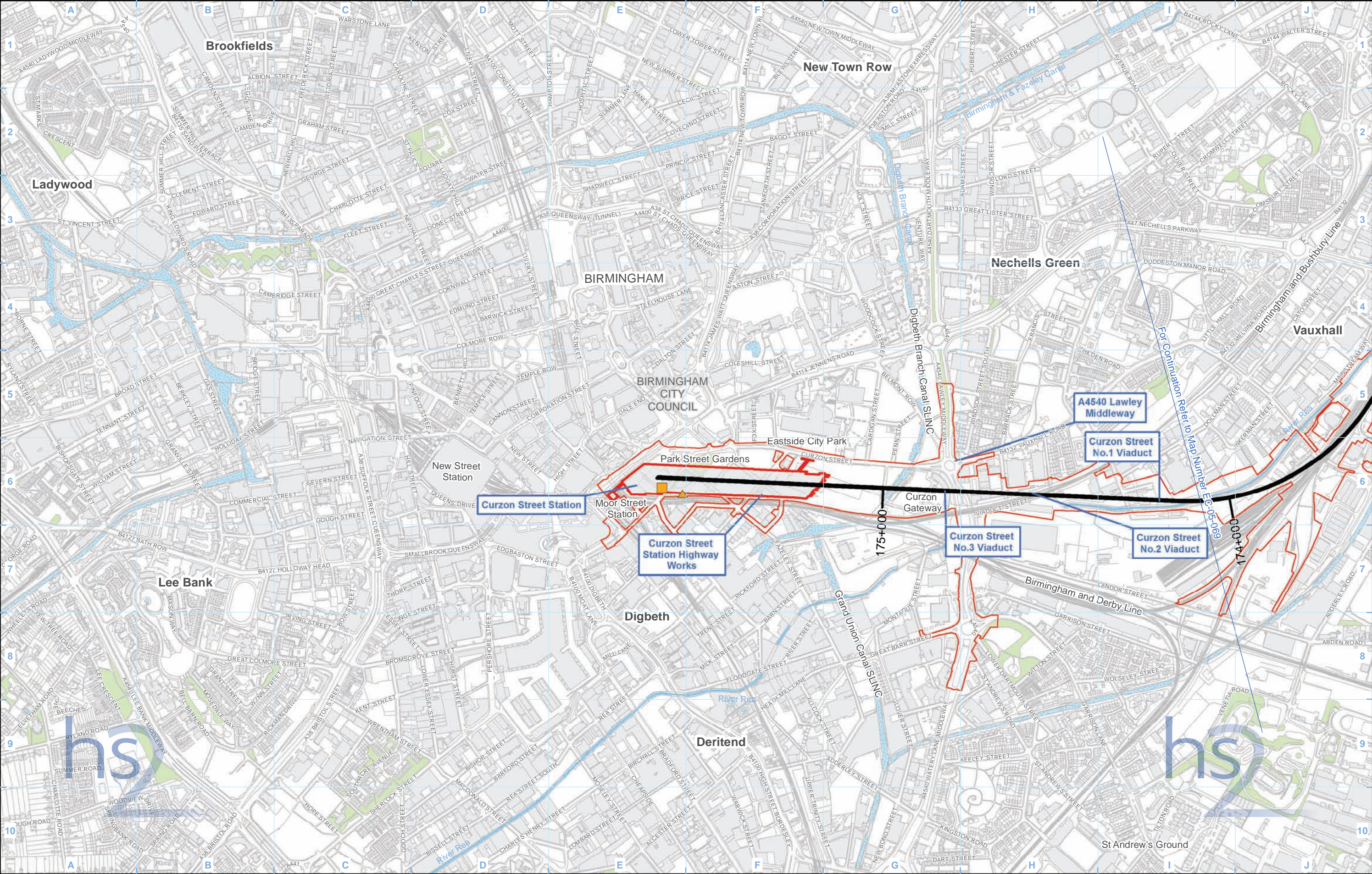
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Date: 28/10/13

Scale at A3: 1:10,000



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

County boundary

District/Borough boundary

Watercourse

Water body

Woodland (not verified by survey)

Confirmed bat roost - trees:

Hibernation roost

Maternity roost

Other roost

Multiple roost types

Confirmed bat roost - buildings:

Hibernation roost

Maternity roost

Other roost

Multiple roost types

Potential to support roosting bats - trees:

High

Moderate

Potential to support roosting bats - buildings:

High

Moderate

Map Number

EC-05-070

Map Name

Bat - Roost

Community Forum Area CFA26:
Washwood Heath to Curzon Street

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Metres

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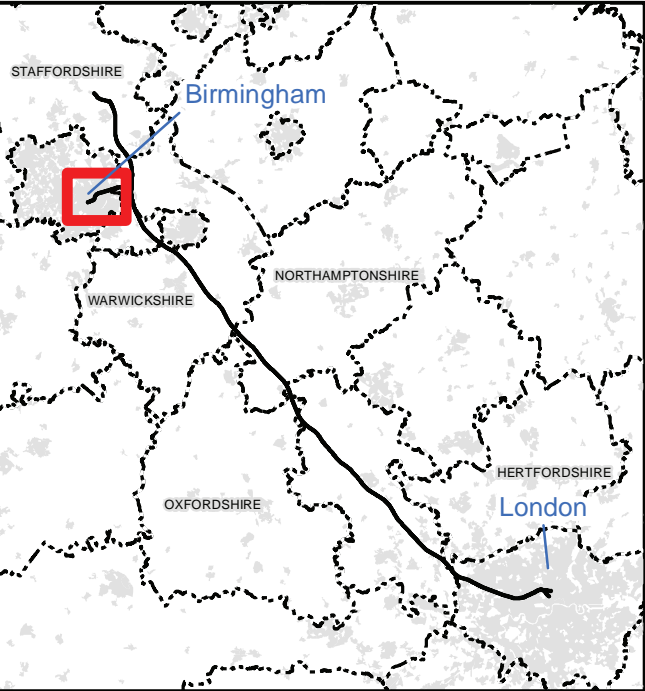
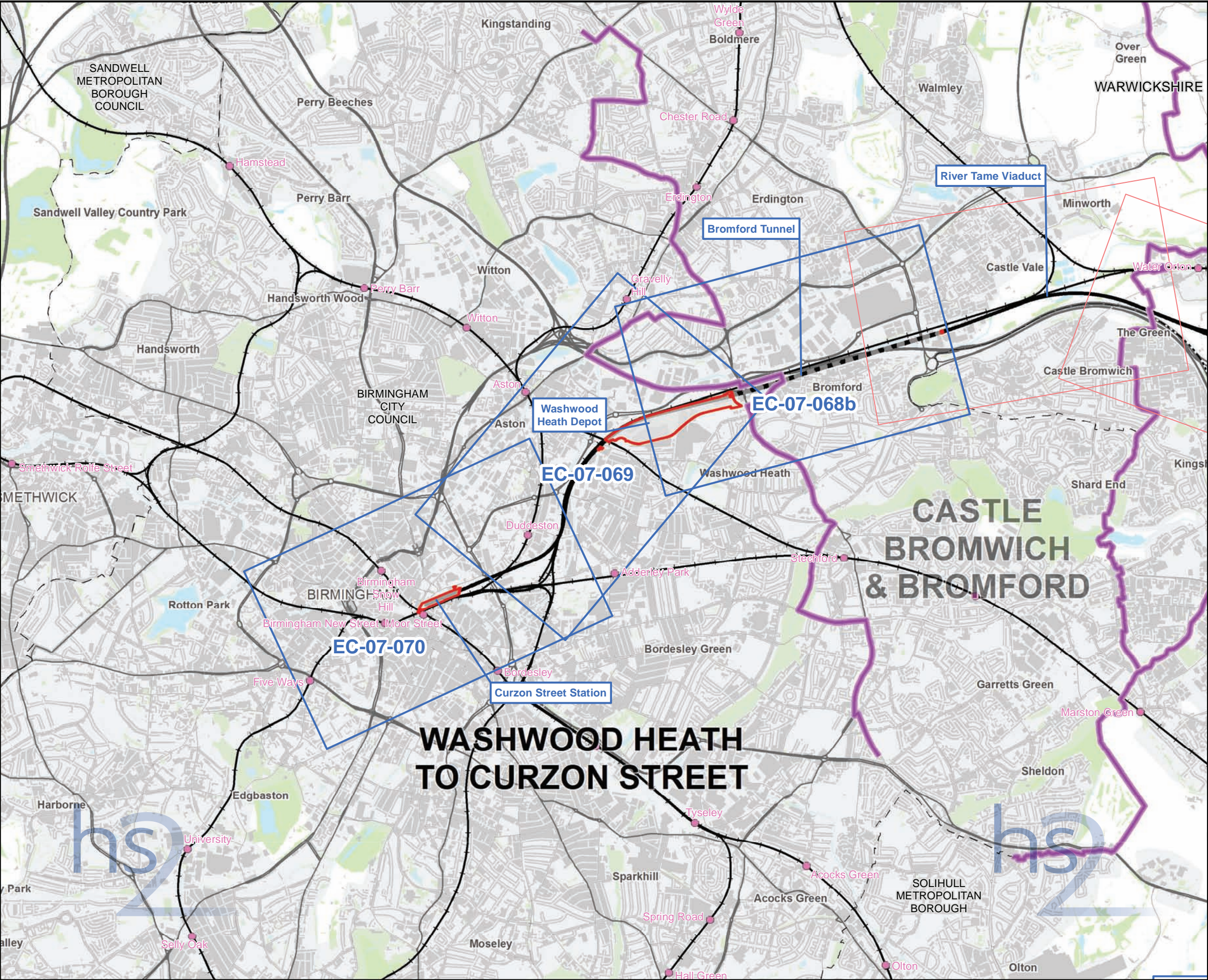
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Date: 28/10/13

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-07 – Reptiles



Map Series Information:

This map series shows the extent and results of survey work for common reptiles that has been undertaken to inform the Environmental Statement.

Note: Not all data layers in the legend are represented on every map.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary

- Map sheets included in this community forum
- Map sheets not included in this community forum

Map Number EC-07-INDEX-CFA26

Map Name Index Map of: Reptiles

Community Forum Area CFA26:
Washwood Heath to Curzon Street



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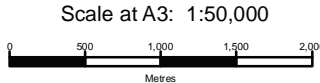


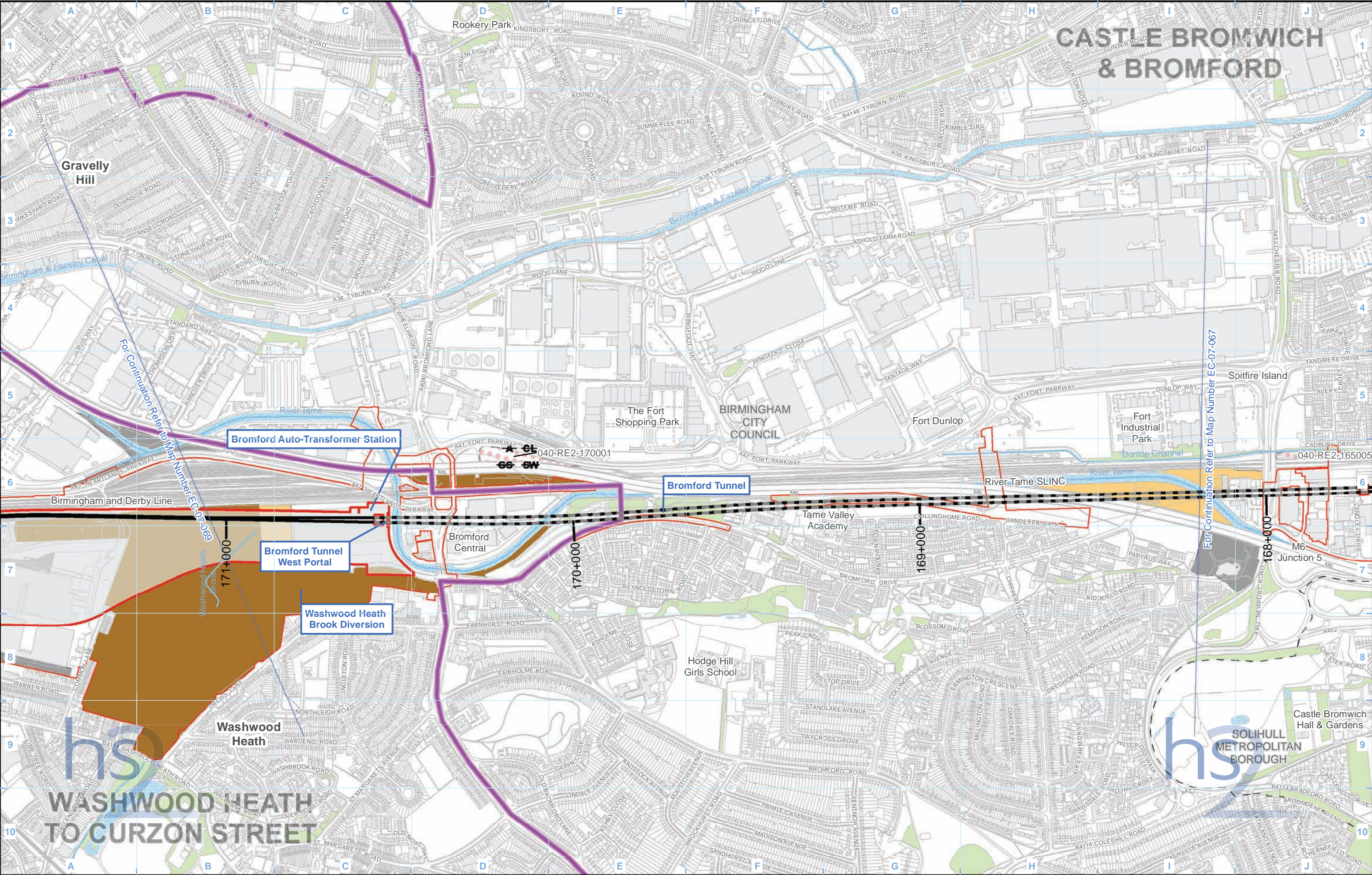
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Date: 25/10/13





Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

County boundary

District/Borough boundary

Watercourse

Water body

Woodland (not verified by survey)

Population size class survey - visits completed

Population size class survey - incomplete

Presence/absence survey conducted - reptiles assumed absent

Scoping visit only - scoped out

Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common lizard:	Grass snake:	Slow worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number

EC-07-068b

Map Name

Reptiles

Community Forum Area CFA26:
Washwood Heath to Curzon Street

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0

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Metres

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Doc Number: C254-ARP-EV-MAP-040-067168-P06.00

hs2

SOLIHULL
METROPOLITAN
BOROUGH

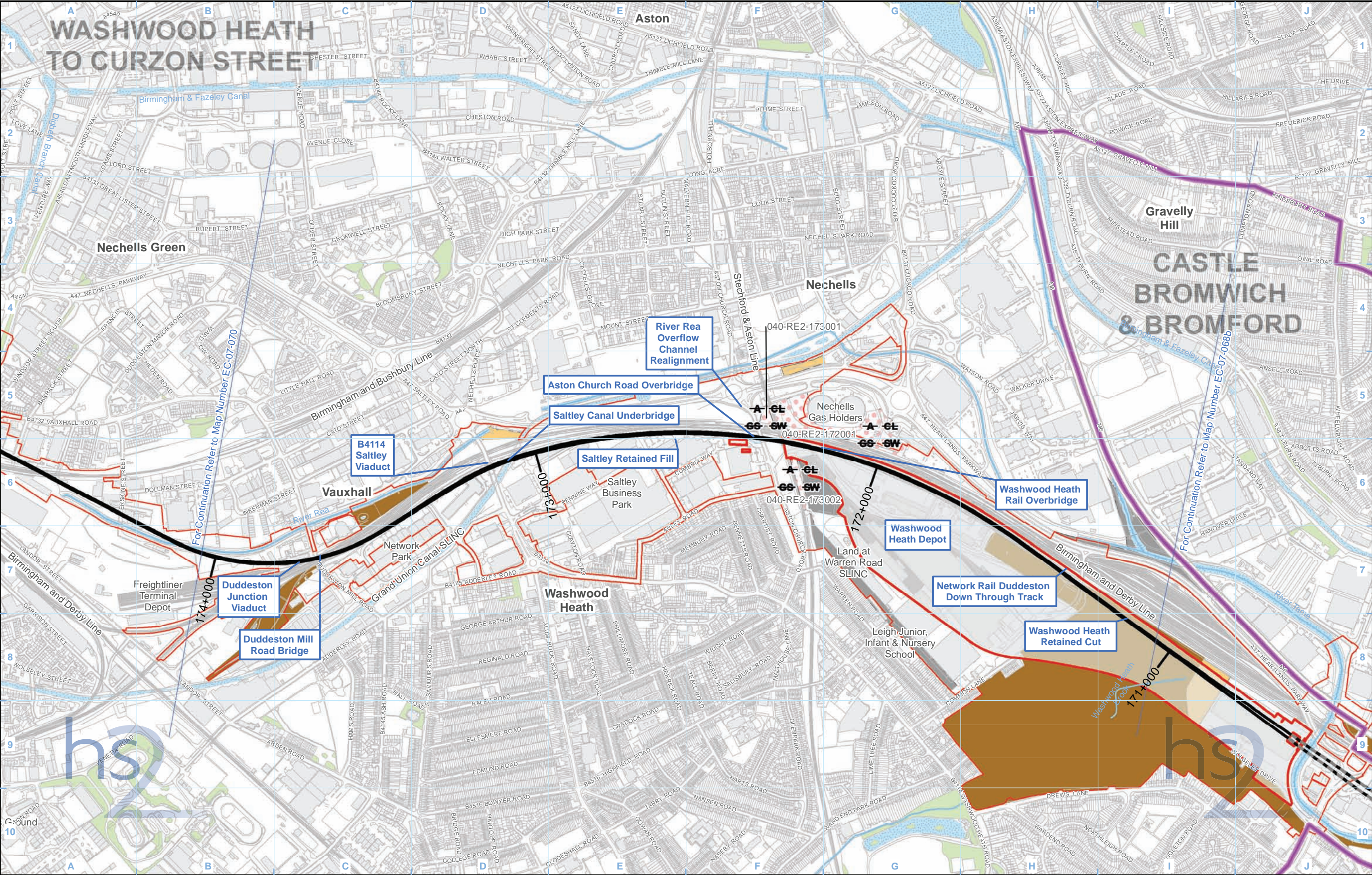
Castle Bromwich
Hall & Gardens

hs2

Scale at A3: 1:10,000

0 100 200 300 400 Metres

Date: 28/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

County boundary

District/Borough boundary

Watercourse

Water body

Woodland (not verified by survey)

Population size class survey - visits completed

Population size class survey - incomplete

Presence/absence survey conducted - reptiles assumed absent

Scoping visit only - scoped out

Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:	Common lizard:	Grass snake:	Slow worm:
A High	CL High	GS High	SW High
A Medium	CL Medium	GS Medium	SW Medium
A Low	CL Low	GS Low	SW Low
A Absent	CL Absent	GS Absent	SW Absent

Map Number

EC-07-069

Map Name

Reptiles

Community Forum Area CFA26:
Washwood Heath to Curzon Street

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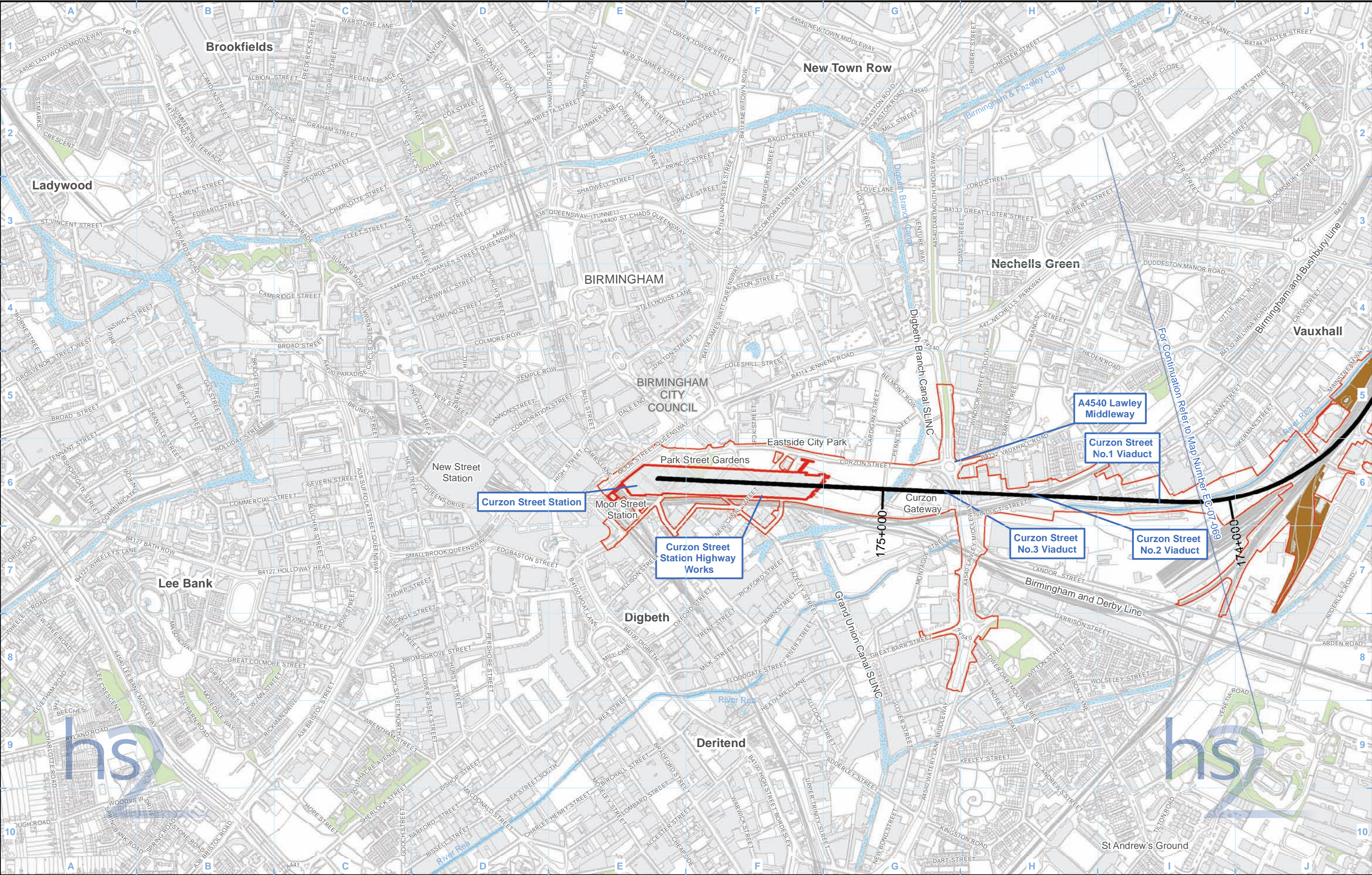
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Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

County boundary

District/Borough boundary

Watercourse

Water body

Woodland (not verified by survey)

Population size class survey - visits completed

Population size class survey - incomplete

Presence/absence survey conducted - reptiles assumed absent

Scoping visit only - scoped out

Scoping visit conducted - habitat suitable but no further survey conducted

Population size class assessment:

Adder:

A	High	CL	High	GS	High	SW	High
A	Medium	CL	Medium	GS	Medium	SW	Medium
A	Low	CL	Low	GS	Low	SW	Low
A	Absent	CL	Absent	GS	Absent	SW	Absent

Common lizard:

CL	High	GS	High	SW	High
CL	Medium	GS	Medium	SW	Medium
CL	Low	GS	Low	SW	Low
CL	Absent	GS	Absent	SW	Absent

Grass snake:

GS	High	SW	High
GS	Medium	SW	Medium
GS	Low	SW	Low
GS	Absent	SW	Absent

Slow worm:

SW	High
SW	Medium
SW	Low
SW	Absent

Map Number

EC-07-070

Map Name

Reptiles

Community Forum Area CFA26:
Washwood Heath to Curzon Street

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Date: 28/10/13

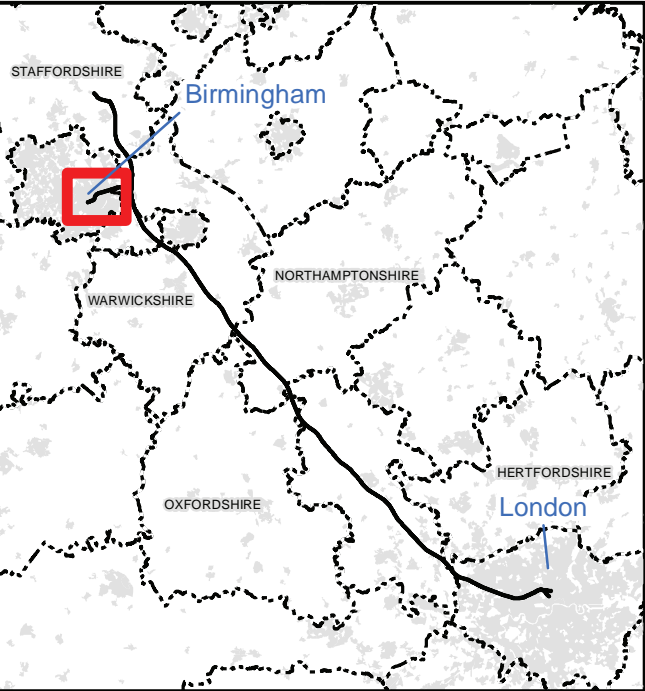
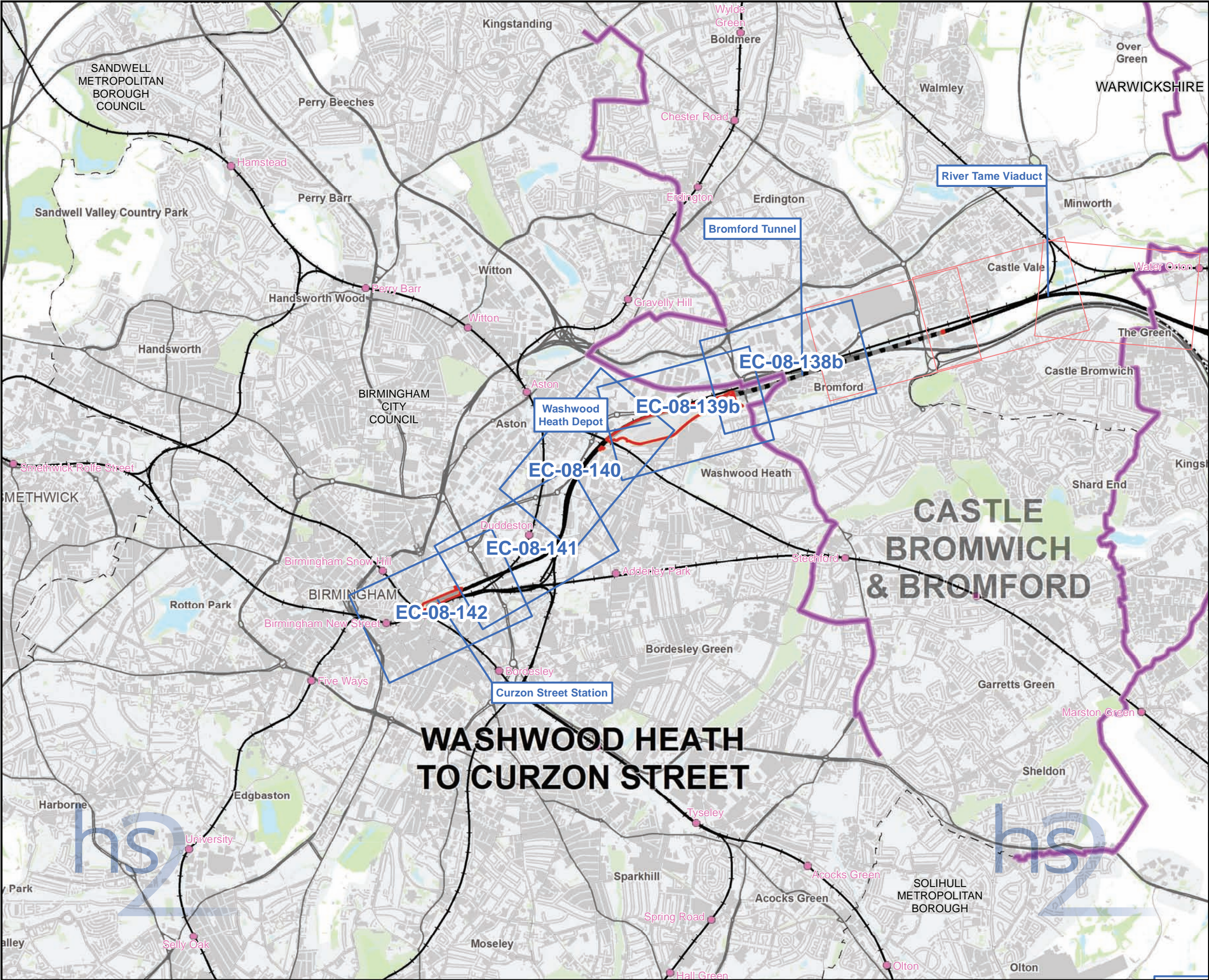
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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-o8 – Breeding Birds – Protected and Notable Species



Map Series Information:

This map series shows records of protected/notable breeding birds that are considered most relevant in considering the impacts of the Proposed Scheme on breeding birds. The location of nest sites for species such as barn owl and raptor species which may be liable to persecution are not displayed.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary

- Map sheets included in this community forum
- Map sheets not included in this community forum

Map Number	EC-08-INDEX-CFA26
Map Name	Index Map of: Breeding Birds - Protected and Notable Species
Community Forum Area CFA26: Washwood Heath to Curzon Street	



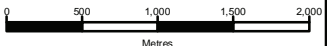
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Doc Number: C254-ARP-EV-MAP-040-568004-P06.00

Date: 25/10/13

			Community Forum Area (CFA) where species recorded and considered relevant to the assessment			
BTO species code	Common name	Protected status	CFA 1-6	CFA 7-15	CFA 16-22	CFA 23-26
BH	Black-headed Gull	BoCC amber listed, localised and scarce				✓
CA	Cormorant	Localised breeding species		✓		✓
CB	Corn bunting	BoCC red listed*, local and scarce		✓	✓	✓
CK	Cuckoo	BoCC concern red listed, local and scarce	✓	✓		✓
CN	Common tern	BoCC amber listed, local		✓		✓
FC	Firecrest	Schedule 1, BoCC amber listed, local				✓
GA	Gadwall	BoCC amber listed, scarce breeding species		✓		✓
GH	Grasshopper warbler	BoCC red listed, local		✓		✓
GW	Garden warbler	local	✓			✓
H.	Grey heron	Localised breeding species				✓
KF	Kingfisher	Annex 1, Schedule 1, BoCC amber list			✓	✓
L.	Lapwing	BoCC red listed, localised flocks.	✓	✓	✓	✓
LG	Little grebe	BOCC Amber listed				✓
LS	Lesser spotted woodpecker	BoCC red listed, now local and scarce		✓	✓	✓
MA	Mallard	BoCC amber listed				✓
MP	Meadow Pipit	BoCC amber listed, localised breeding species	✓			✓
MT	Marsh tit	BoCC red listed, localised	✓	✓	✓	✓
N.	Nightingale	BoCC amber listed, scarce and local				✓
OC	Oystercatcher	BoCC amber listed, localised and scarce (WMM)		✓	✓	✓
P.	Grey partridge	BoCC red listed, scarce		✓	✓	✓
RK	Redshank	BoCC amber listed, scarce inland				✓
RN	Raven	Locally rare		✓		✓
SF	Spotted flycatcher	BoCC red listed, scarce		✓	✓	✓
SM	Sand martin	BoCC amber listed			✓	
SV	Shoveler	BoCC amber listed, scarce breeding species		✓		
TD	Turtle dove	BoCC red listed, local and scarce				✓
TS	Tree sparrow	BoCC red listed, local and scarce		✓	✓	✓
TU	Tufted duck	BoCC amber listed				✓
WK	Woodcock	BoCC amber listed, under-recorded				✓
WT	Willow tit	BoCC red listed, localised and v scarce		✓		✓
YW	Yellow wagtail	BoCC red listed, scarce and local		✓	✓	✓


* Birds of Conservation Concern, which are in severe decline. Easton et al (2009).

Map Name

EC-08 - Legend

Map Name

EC-08 - Breeding Birds - Protected and Notable Species Legend



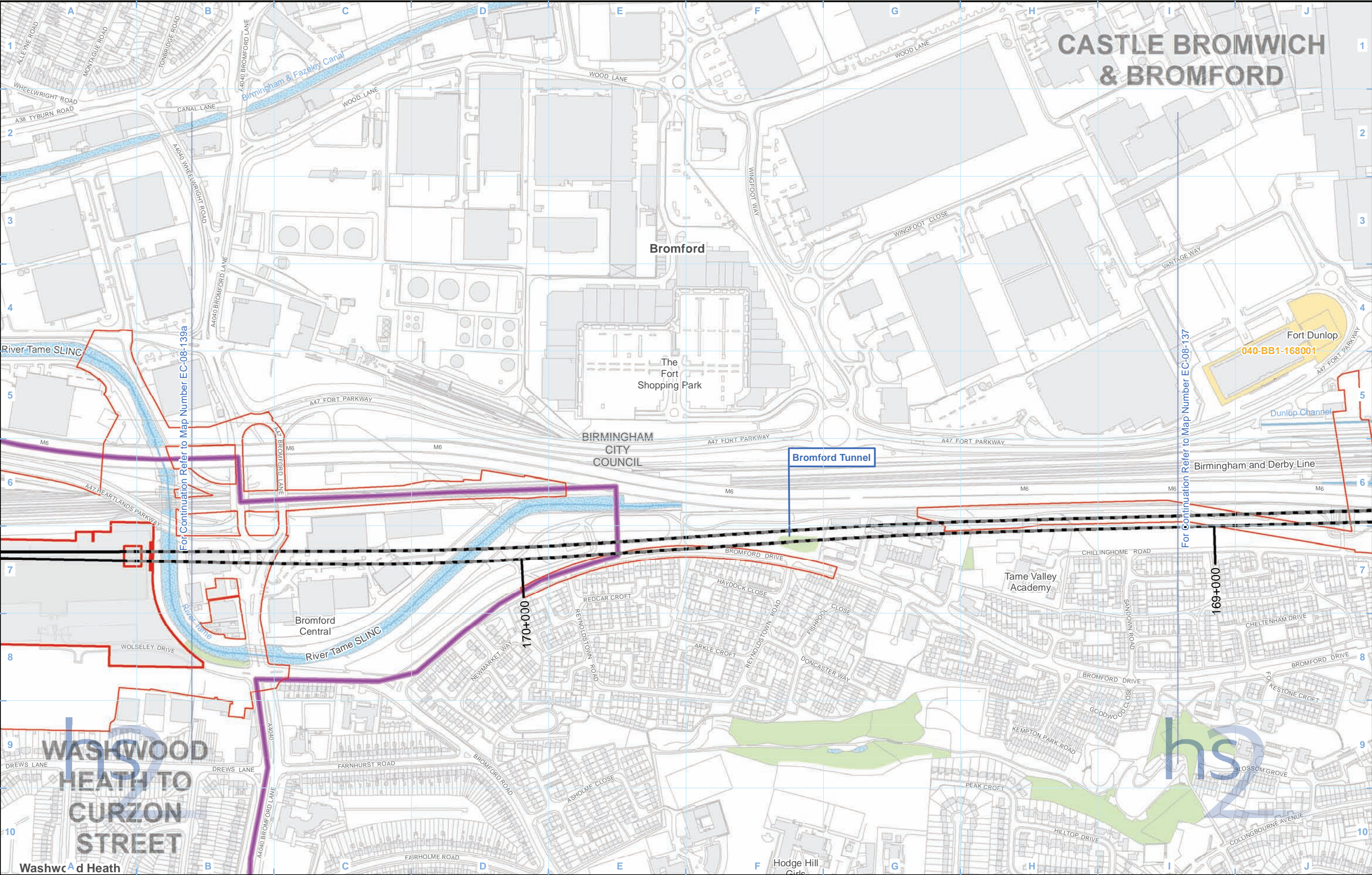
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Date: 23/10/13



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Breeding birds - protection status:

- Species listed on Annex I of the Birds Directive
- Species listed on Schedule 1 of the Wildlife and Countryside Act

Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices

Other notable species relevant to assessment - see Volume 5 Appendices

Breeding birds - survey extent

For full legend please refer to EC-08 - Legend page

Map Number

EC-08-138b

Map Name

Breeding Birds – Protected and Notable Species

Community Forum Area CFA26:
Washwood Heath to Curzon Street

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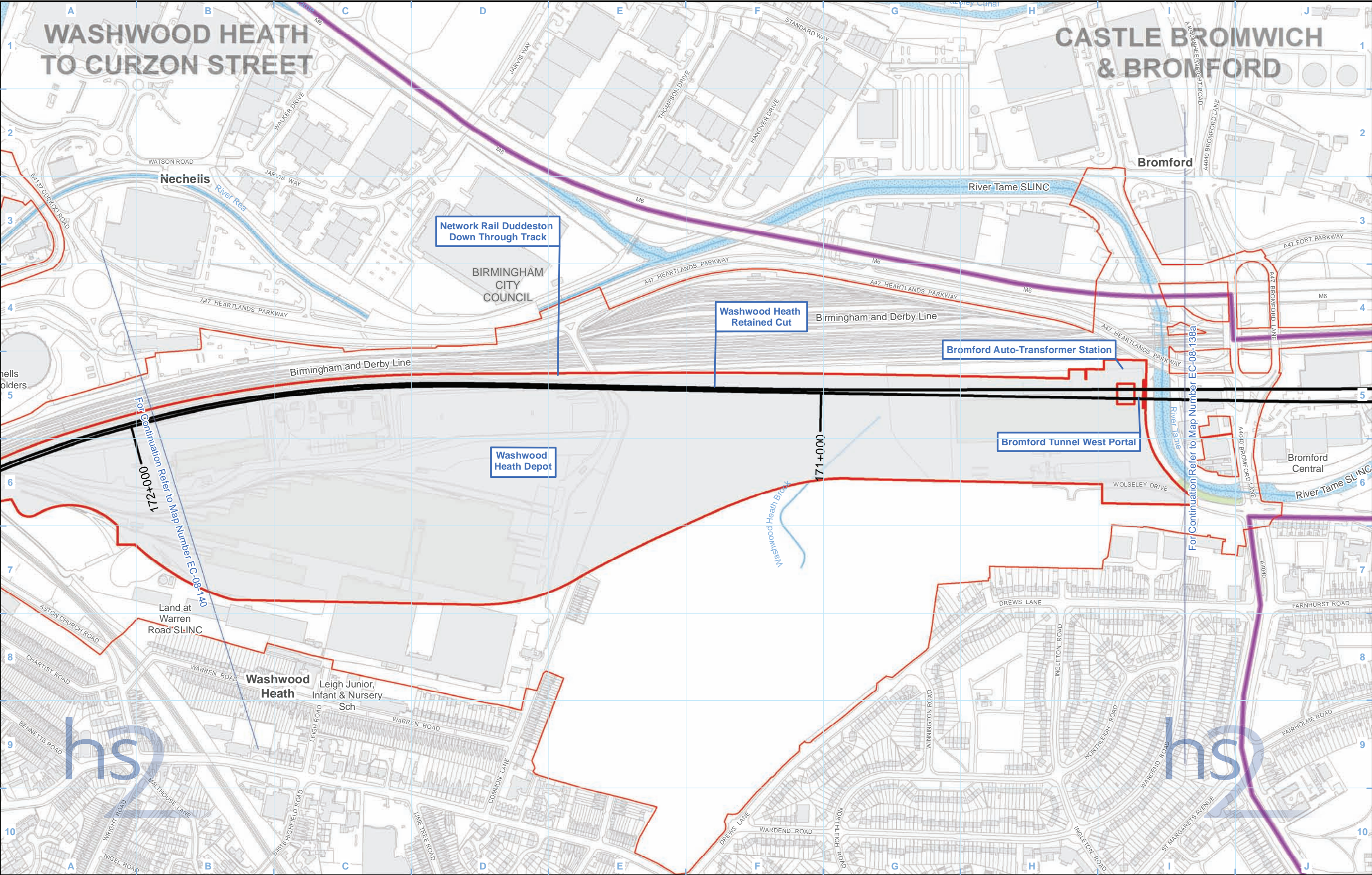
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Doc Number: C254-ARP-EV-MAP-040-068238-P06.00

Scale at A3: 1:5,000

0 50 100 150 200 Metres

Date: 28/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Breeding birds - protection status:

Species listed on Annex I of the Birds Directive

Species listed on Schedule 1 of the Wildlife and Countryside Act

Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices

Other notable species relevant to assessment - see Volume 5 Appendices

Breeding birds - survey extent

For full legend please refer to EC-08 - Legend page

Map Number

EC-08-139b

Map Name

Breeding Birds – Protected and Notable Species

Community Forum Area CFA26:

Washwood Heath to Curzon Street

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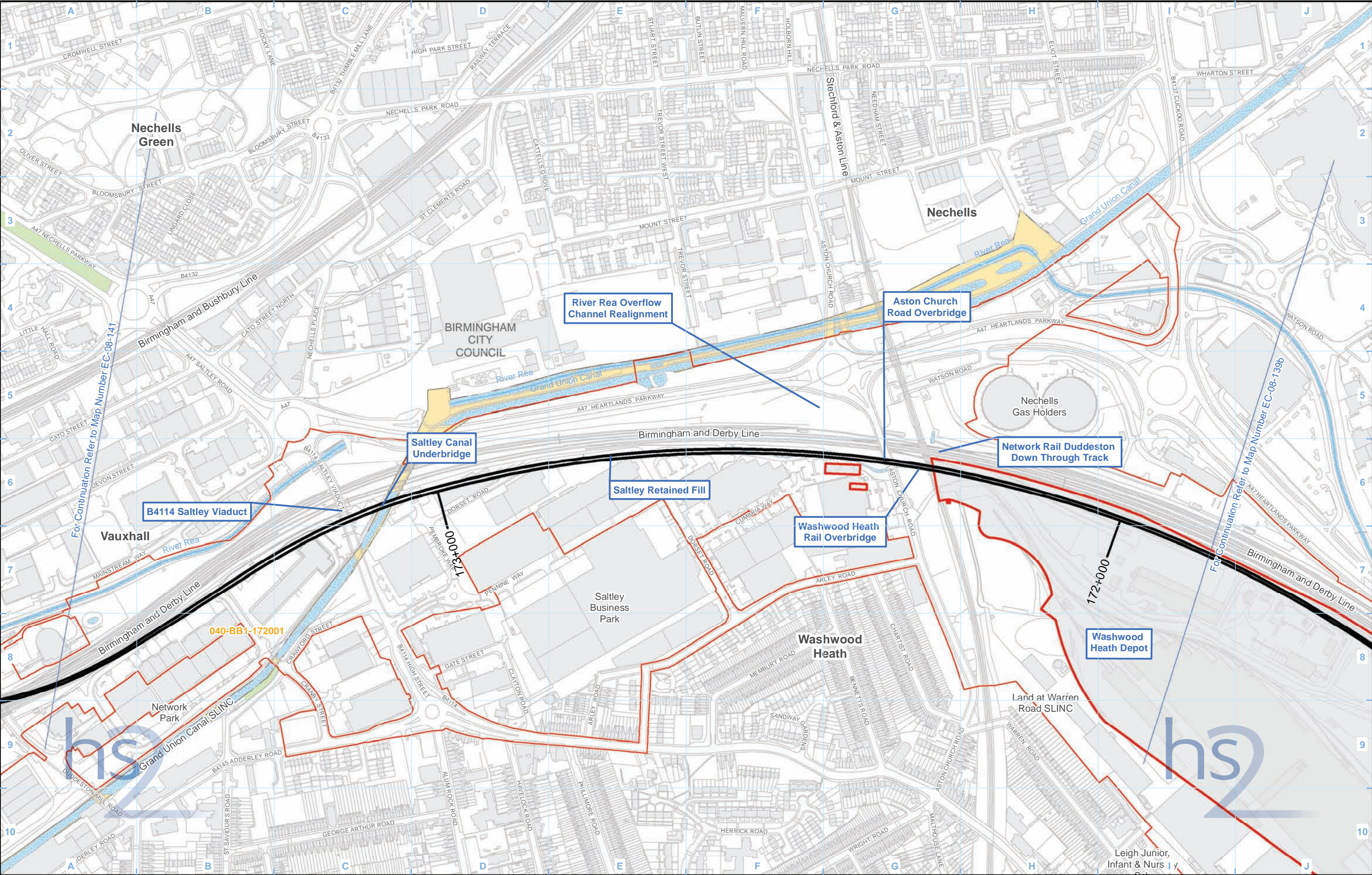
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Metres

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Date: 28/10/13



Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Breeding birds - protection status:

Species listed on Annex I of the Birds Directive

Species listed on Schedule 1 of the Wildlife and Countryside Act

Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices

Other notable species relevant to assessment - see Volume 5 Appendices

Breeding birds - survey extent

For full legend please refer to EC-08 - Legend page

Map Number

EC-08-140

Map Name

Breeding Birds – Protected and Notable Species

Community Forum Area CFA26:

Washwood Heath to Curzon Street

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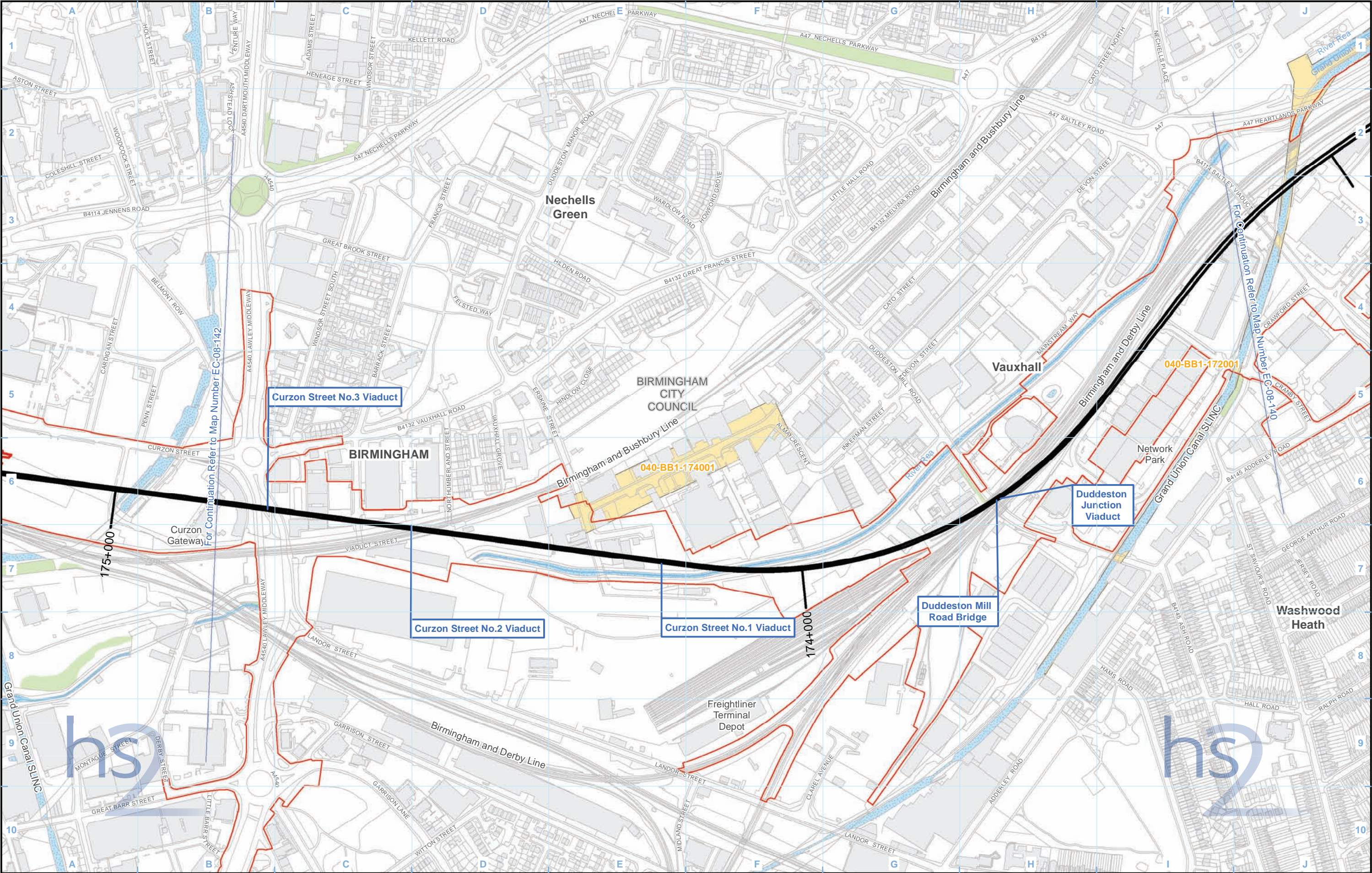
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Metres



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Breeding birds - protection status:

Species listed on Annex I of the Birds Directive

Species listed on Schedule 1 of the Wildlife and Countryside Act

Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act

Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices

Other notable species relevant to assessment - see Volume 5 Appendices

Breeding birds - survey extent

For full legend please refer to EC-08 - Legend page

Map Number

EC-08-141

Map Name

Breeding Birds – Protected and Notable Species

Community Forum Area CFA26:
Washwood Heath to Curzon Street

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Scale at A3: 1:5,000

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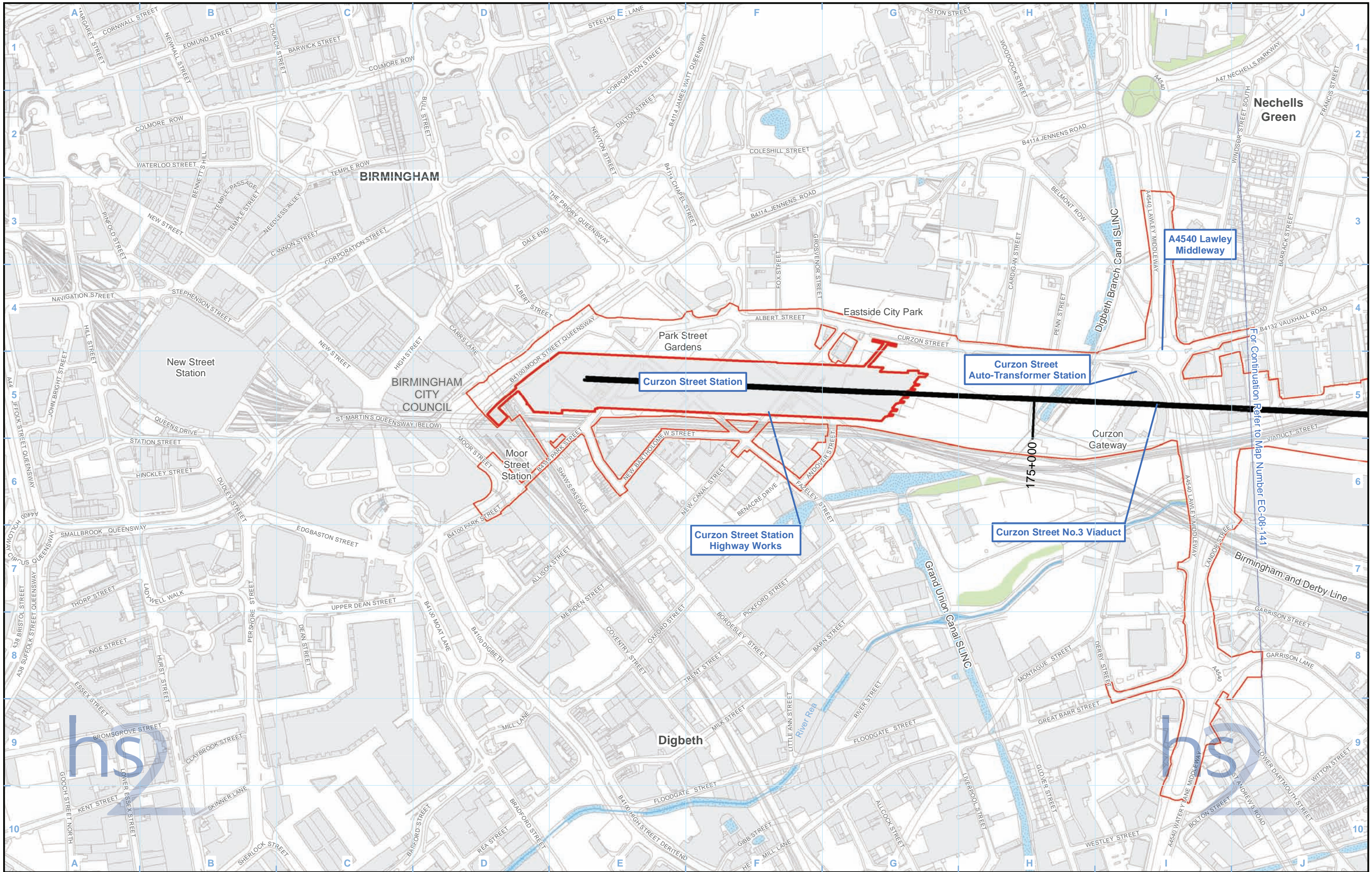
100

150

200

Metres

Date: 28/10/13



Legend

- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community forum boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland (verified by survey)
 - Breeding birds - protection status:
 - Species listed on Annex I of the Birds Directive
 - Species listed on Schedule 1 of the Wildlife and Countryside Act
 - Species listed on Annex I of the Birds Directive and Schedule 1 of the Wildlife and Countryside Act
 - Species listed on Birds of Conservation Concern list relevant to assessment – See Volume 5 Appendices
 - Other notable species relevant to assessment - see Volume 5 Appendices
 - Breeding birds - survey extent
- For full legend please refer to EC-08 - Legend page

Map Number
EC-08-142

Map Name
Breeding Birds – Protected and Notable Species

Community Forum Area CFA26:
Washwood Heath to Curzon Street

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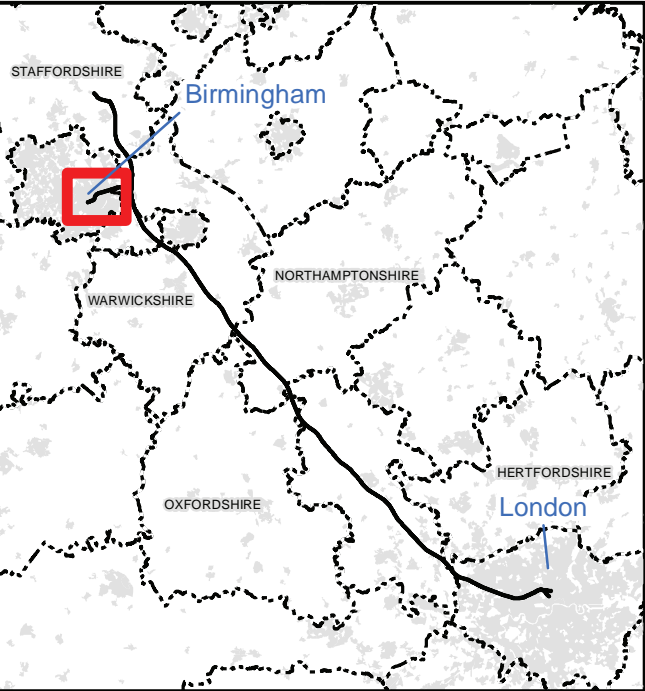
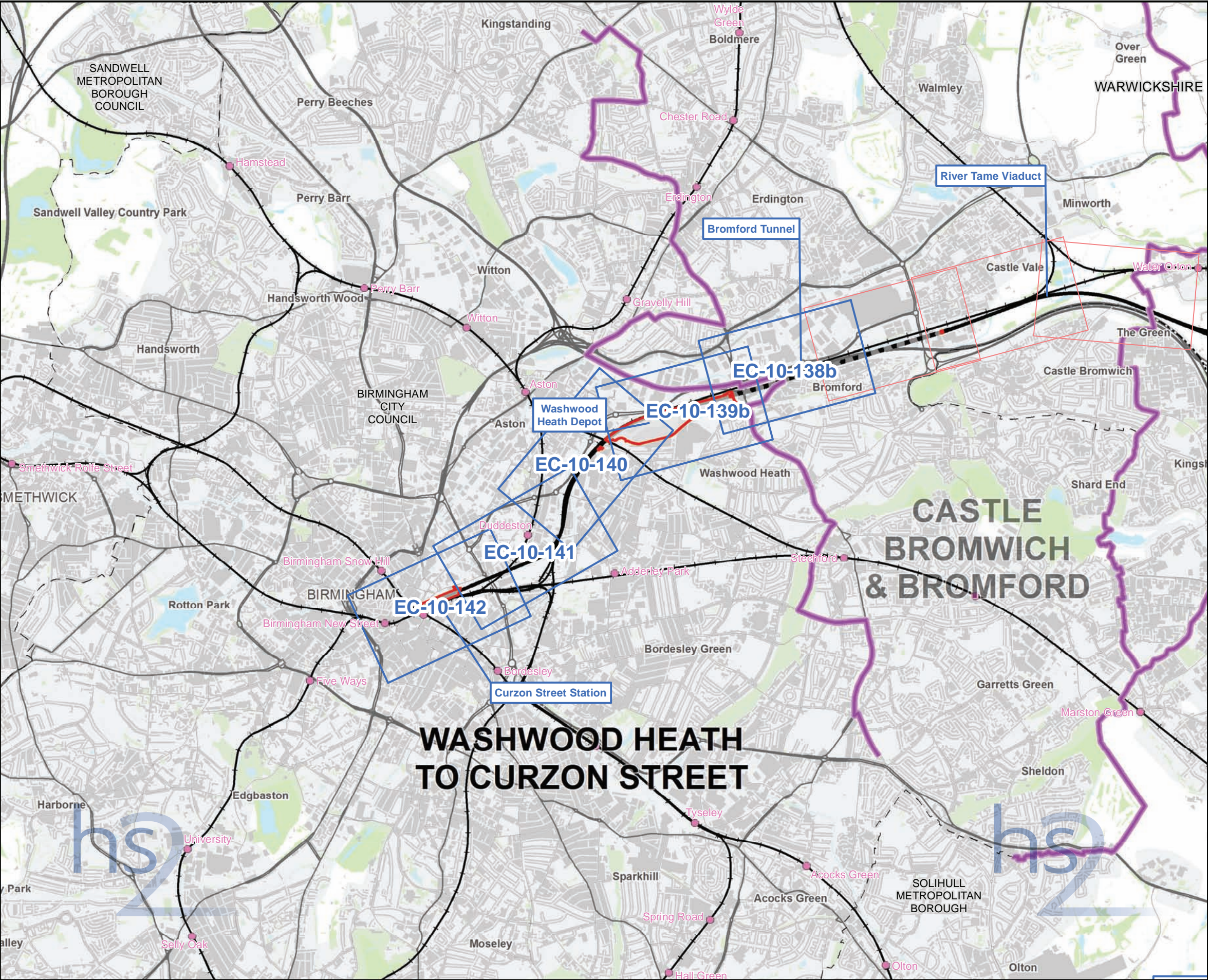
Date: 28/10/13

Scale at A3: 1:5,000

0 50 100 150 200 Metres

LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-10 – Phase 2 Habitat Survey



Map Series Information:

This map series shows the extent of detailed habitat surveys undertaken to inform the Environmental Statement. The map shows the location of hedgerows that qualify as 'important hedgerows' under the wildlife and landscape criteria of the Hedgerows Regulations (1997).

Note: Not all data layers in the legend are represented on every map.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary

- Map sheets included in this community forum
- Map sheets not included in this community forum

Map Number EC-10-INDEX-CFA26

Map Name Index Map of:
Phase 2 Habitat Survey

Community Forum Area CFA26:
Washwood Heath to Curzon Street



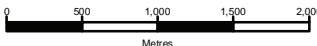
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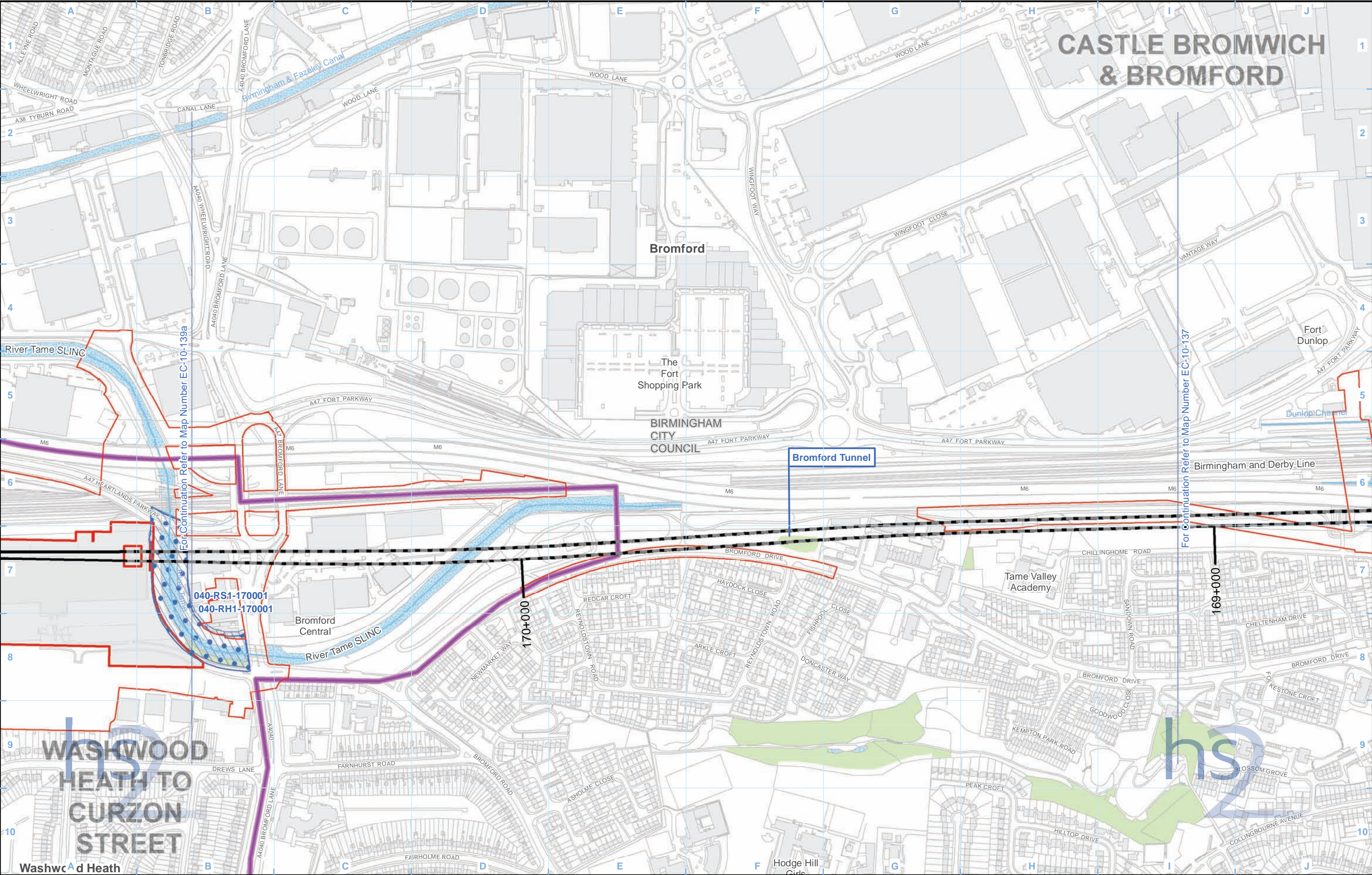
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Doc Number: C254-ARP-EV-MAP-040-571004-P06.00

Date: 25/10/13



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)

- National Vegetation Classification survey
- Ditch vegetation survey
- 'Important' hedgerow confirmed by field survey
- Possible 'Important' hedgerow - no access available for survey

- River corridor survey extent
- River habitat survey extent

Map Number

EC-10-138b

Map Name

Phase 2 Habitat Survey

Community Forum Area CFA26:
Washwood Heath to Curzon Street

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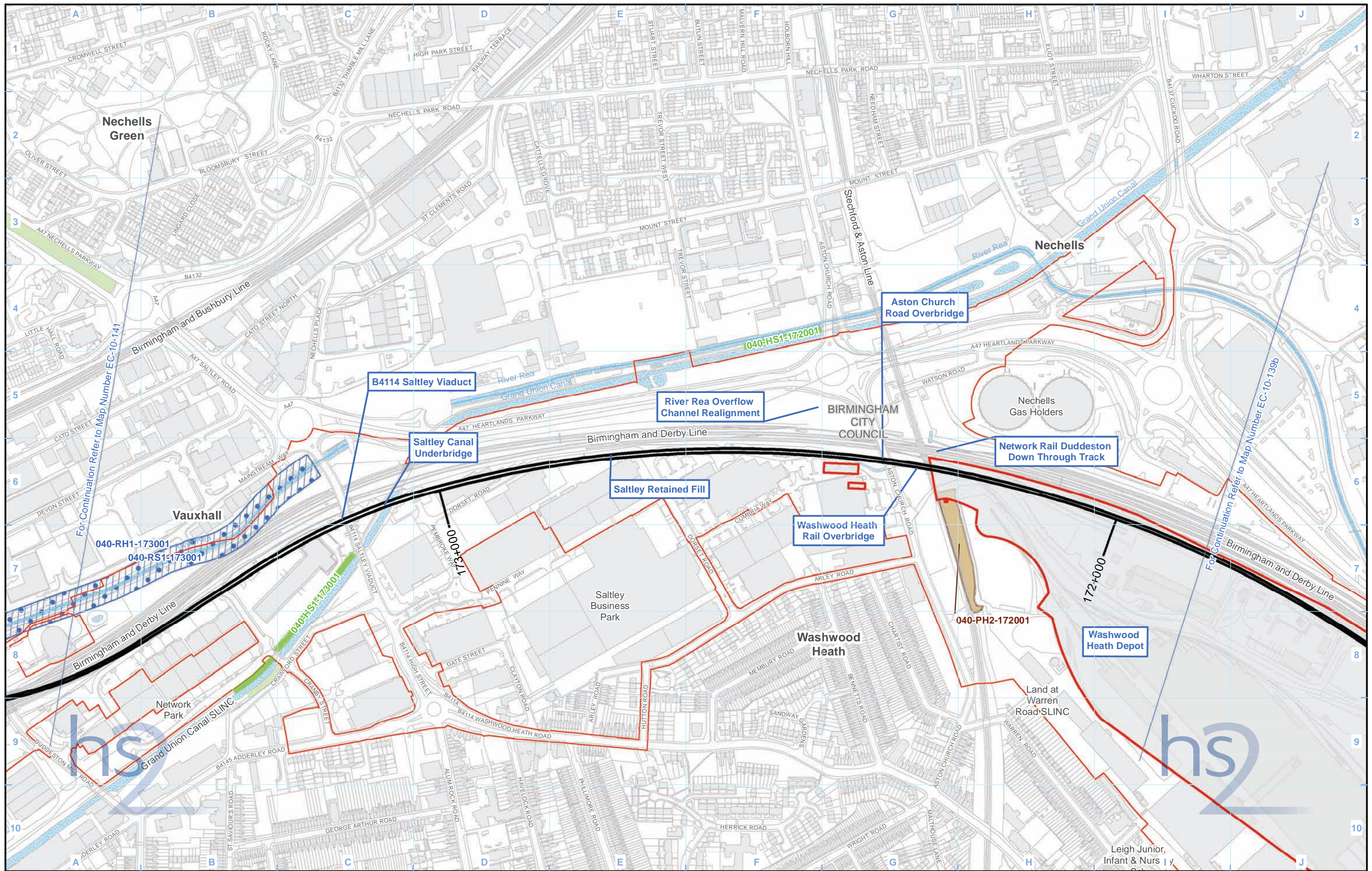
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0 50 100 150 200
Metres

Date: 28/10/13



Legend	
Route in tunnel	Watercourse
Route on surface	Water body
Depot, station, headhouse or portal building	Woodland (verified by survey)
Land potentially required during construction	National Vegetation Classification survey
Community forum boundary	Ditch vegetation survey
District/Borough boundary	River corridor survey extent
	River habitat survey extent
	'Important' hedgerow confirmed by field survey
	Possible 'Important' hedgerow - no access available for survey

Map Number	EC-10-140
Map Name	Phase 2 Habitat Survey
Community Forum Area CFA26: Washwood Heath to Curzon Street	

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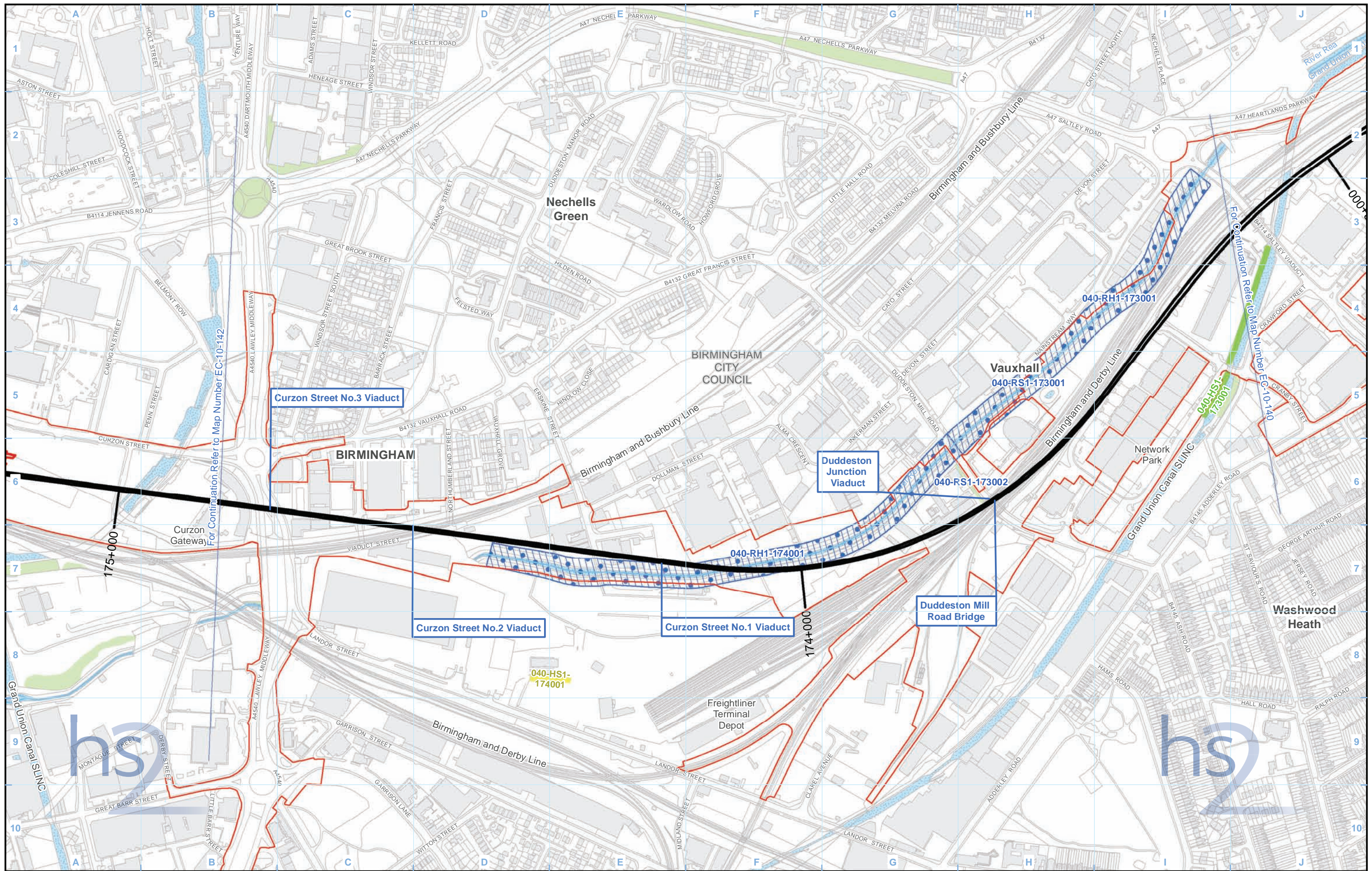
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Doc Number: C254-ARP-EV-MAP-040-071140-P06.00

Date: 28/10/13

Scale at A3: 1:5,000



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

National Vegetation Classification survey

Ditch vegetation survey

'Important' hedgerow confirmed by field survey

Possible 'Important' hedgerow - no access available for survey

River corridor survey extent

River habitat survey extent

Map Number
EC-10-141

Map Name
Phase 2 Habitat Survey

Community Forum Area CFA26:
Washwood Heath to Curzon Street

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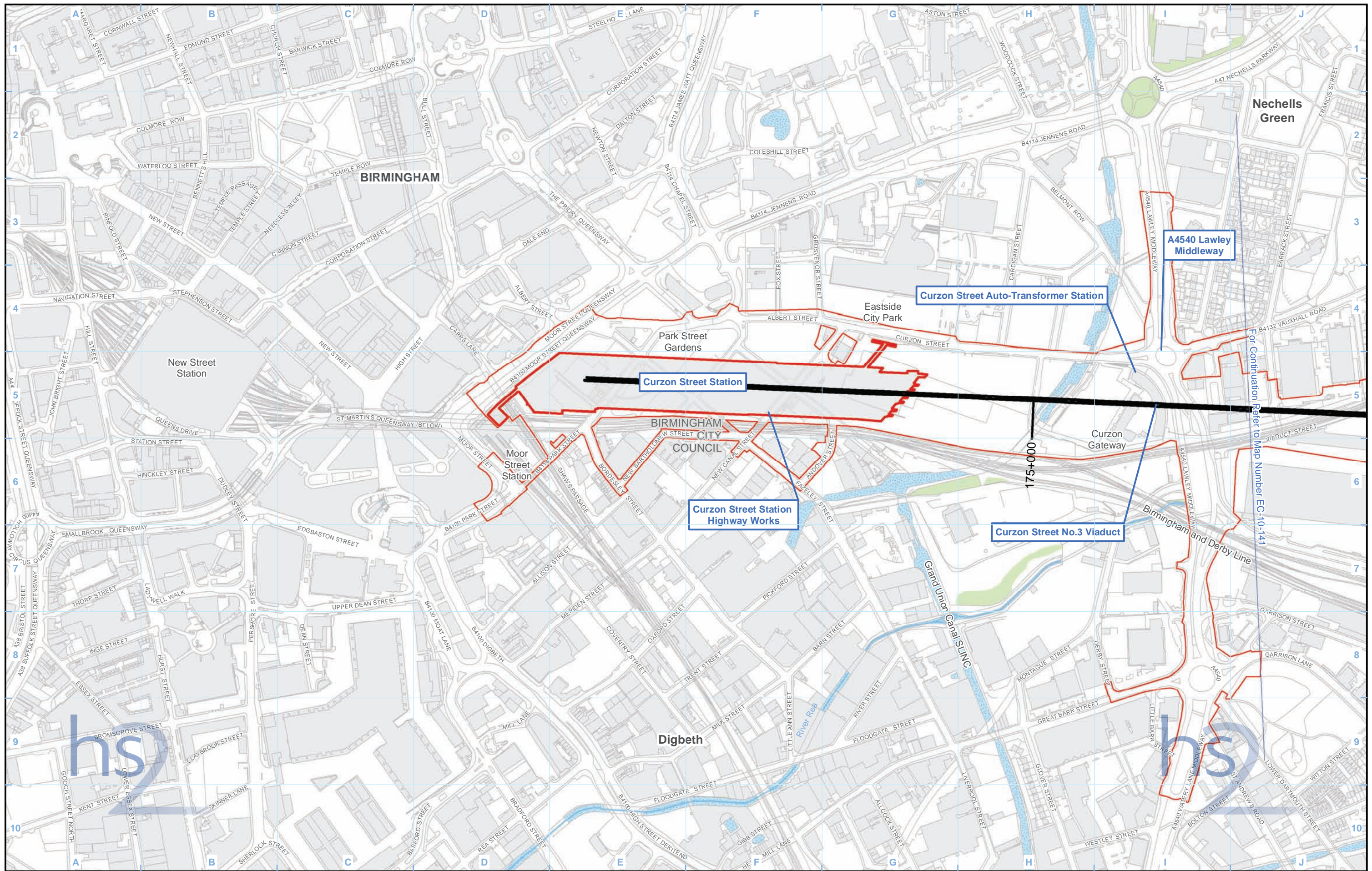
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Scale at A3: 1:5,000

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Date: 28/10/13

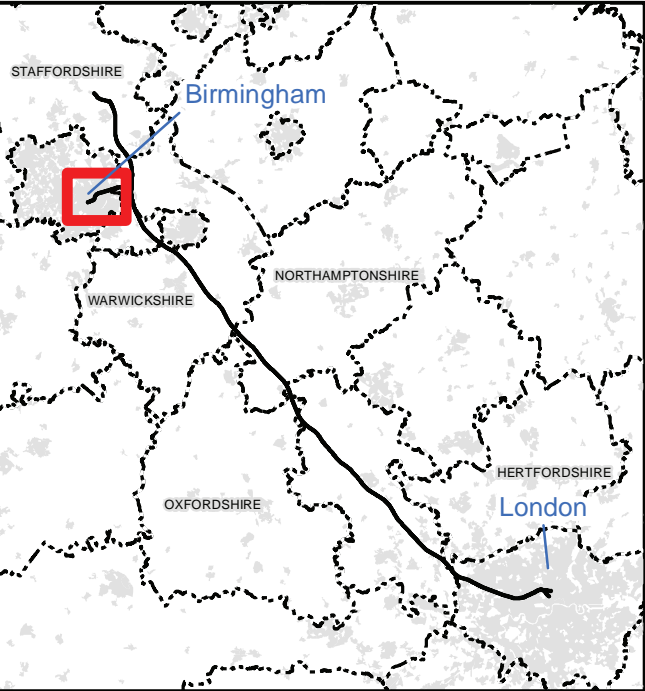
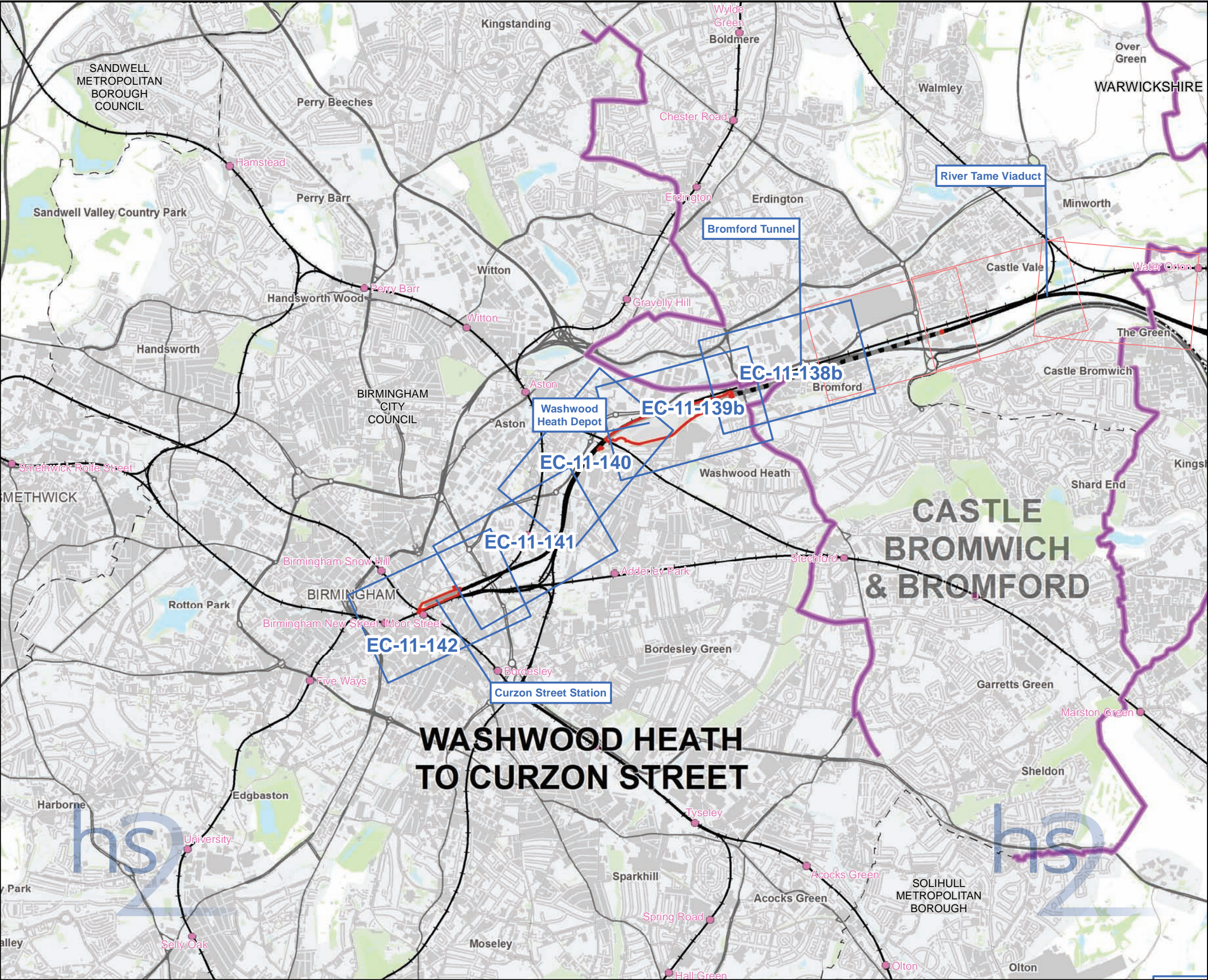


Legend		Map Number EC-10-142	
Route in tunnel	Watercourse	National Vegetation Classification survey	River corridor survey extent
Route on surface	Water body	Ditch vegetation survey	River habitat survey extent
Depot, station, headhouse or portal building	Woodland (verified by survey)	'Important' hedgerow confirmed by field survey	
Land potentially required during construction		Possible 'Important' hedgerow - no access available for survey	
Community forum boundary			
District/Borough boundary			
Map Name Phase 2 Habitat Survey		Scale at A3: 1:5,000	
Community Forum Area CFA26: Washwood Heath to Curzon Street		Doc Number: C254-ARP-EV-MAP-040-071142-P06.00	
Date: 28/10/13		Date: 28/10/13	

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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-11 – Other Protected and Notable Species (1)



Map Series Information:

This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.

Note: Not all data layers in the legend are represented on every map.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary

- Map sheets included in this community forum
- Map sheets not included in this community forum

Map Number	EC-11-INDEX-CFA26
Map Name	Index Map of: Other Protected and Notable Species (1)
Community Forum Area CFA26: Washwood Heath to Curzon Street	



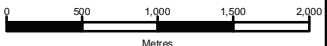
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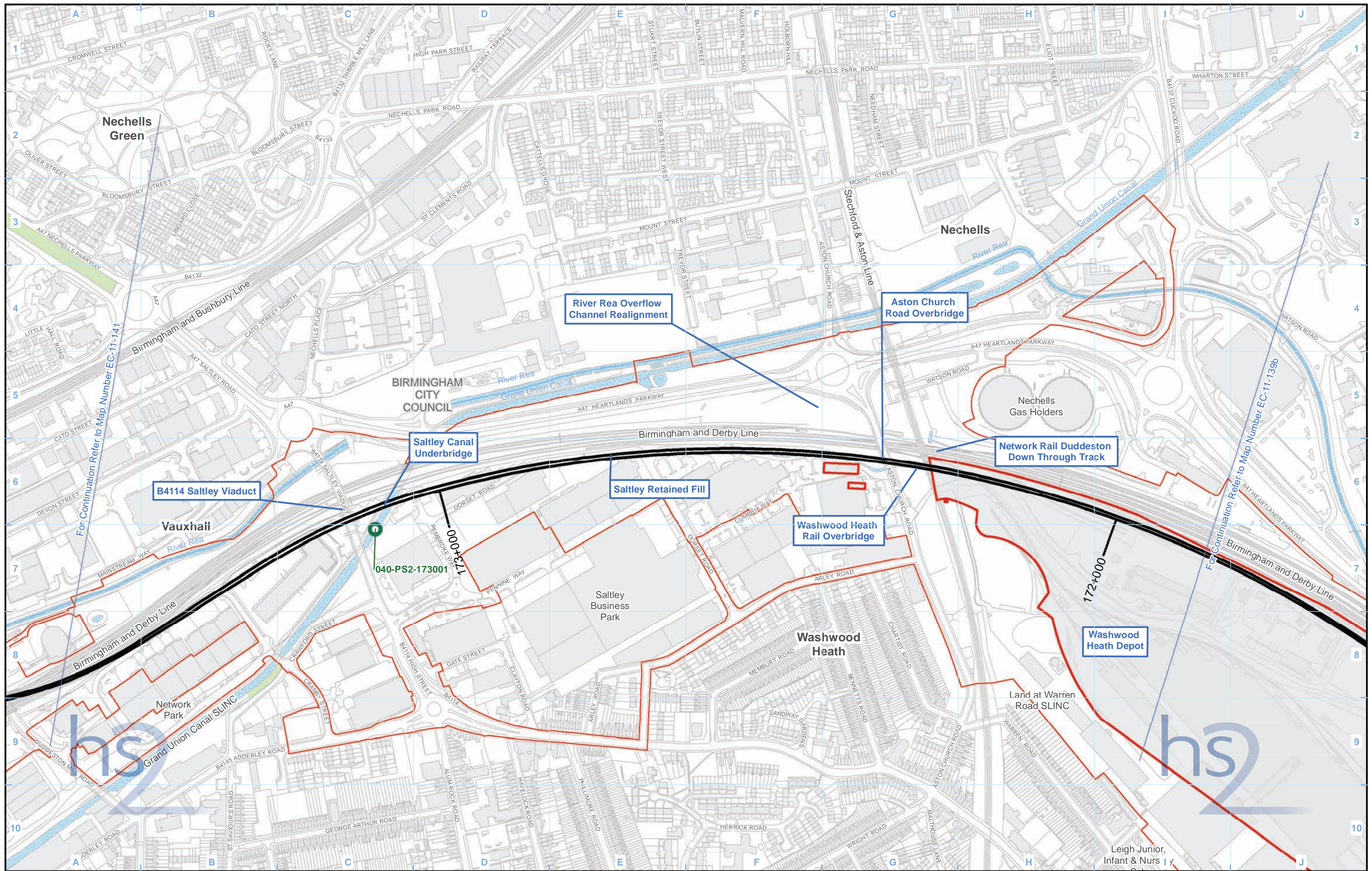
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Doc Number: C254-ARP-EV-MAP-040-572004-P06.00

Date: 25/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Otter:

Active otter holt

Potential otter holt

Otter terrestrial habitat

White clawed crayfish:

Manual search and/or trapping conducted and presence confirmed

Manual search and/or trapping conducted and assumed absent

Site identified as potentially suitable but no access available

Pond survey:

Pond survey – national pond survey

Pond survey – PSYM

Pond survey – rapid assessment method

Fish:

Fish survey location

Terrestrial invertebrate: survey extent

Map Number

EC-11-140

Map Name

Other Protected and Notable Species (1)

Community Forum Area CFA26:

Washwood Heath to Curzon Street

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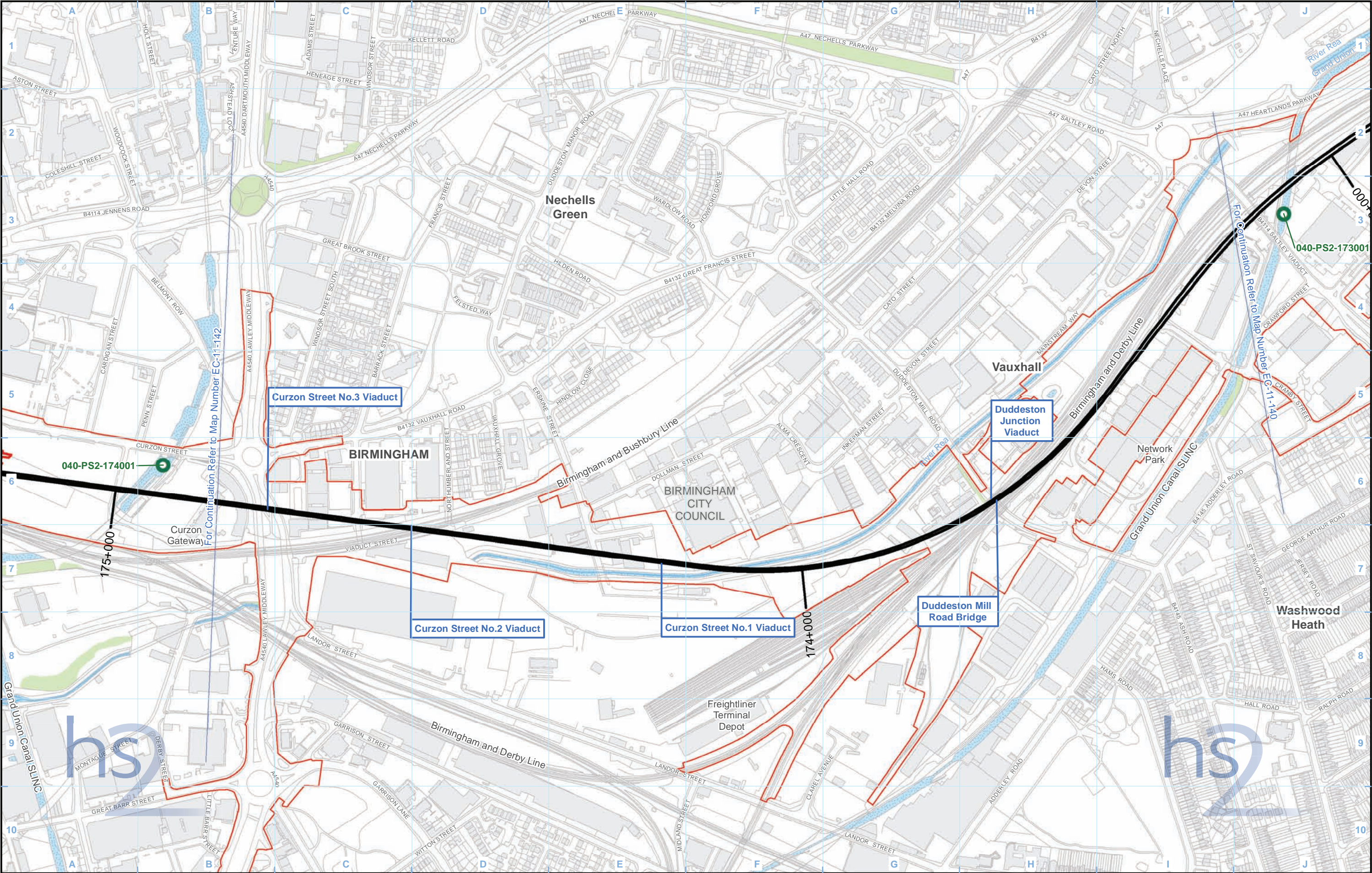
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Doc Number: C254-ARP-EV-MAP-040-072140-P06.00

Scale at A3: 1:5,000

Metres

Date: 28/10/13



Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Otter:

Active otter holt

Potential otter holt

Otter terrestrial habitat

White clawed crayfish:

Manual search and/or trapping conducted and presence confirmed

Manual search and/or trapping conducted and assumed absent

Site identified as potentially suitable but no access available

Pond survey:

Pond survey – national pond survey

Pond survey – PSYM

Pond survey – rapid assessment method

Fish:

Fish survey location

Terrestrial invertebrate:

Terrestrial invertebrate survey extent

Map Number

EC-11-141

Map Name

Other Protected and Notable Species (1)

Community Forum Area CFA26:

Washwood Heath to Curzon Street

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Scale at A3: 1:5,000

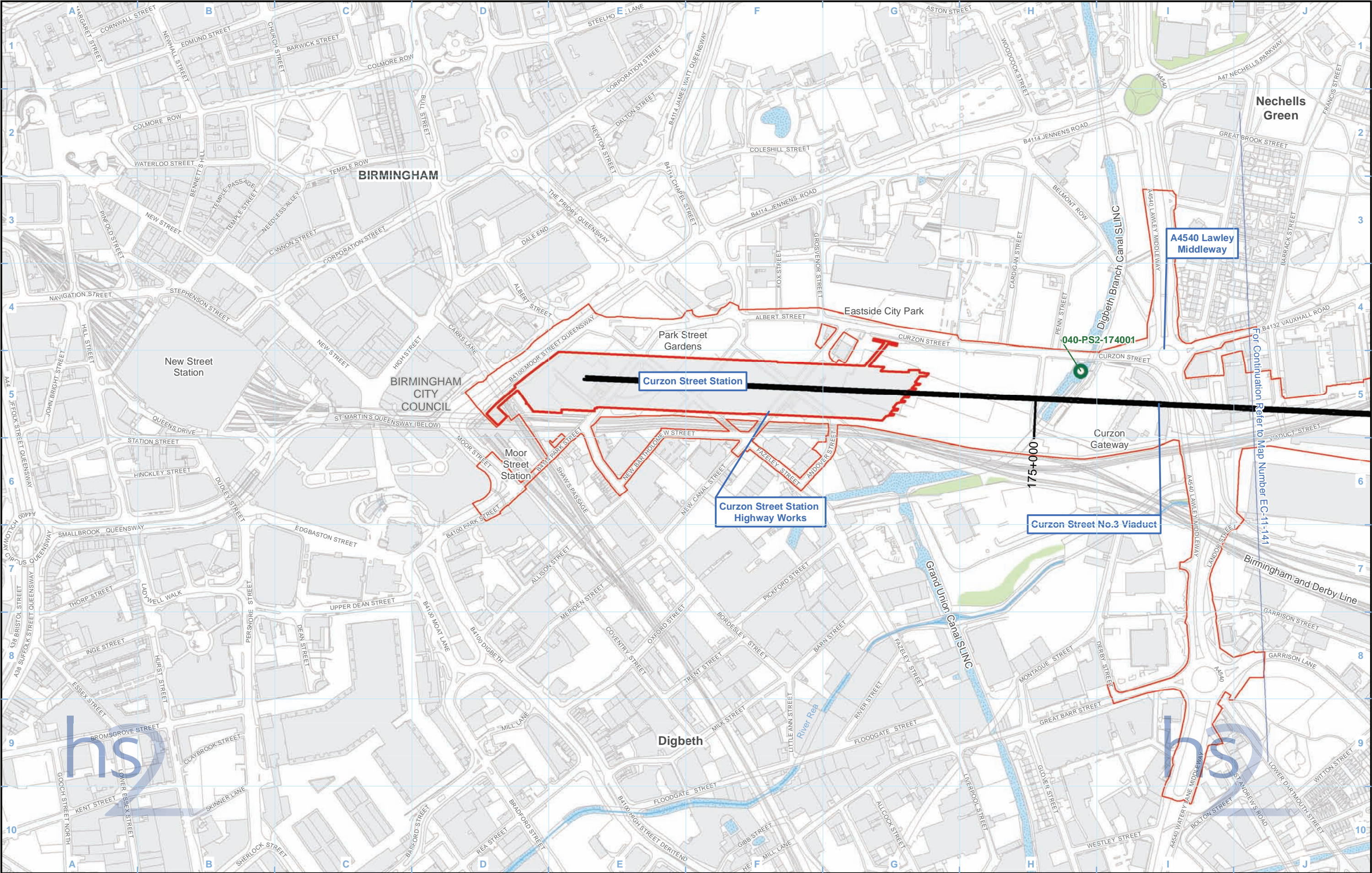
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Date: 28/10/13

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Legend

Route in tunnel

Route on surface

Depot, station, headhouse or portal building

Land potentially required during construction

Community forum boundary

District/Borough boundary

Watercourse

Water body

Woodland (verified by survey)

Otter:

Active otter holt

Potential otter holt

Otter terrestrial habitat

White clawed crayfish:

Manual search and/or trapping conducted and presence confirmed

Manual search and/or trapping conducted and assumed absent

Site identified as potentially suitable but no access available

Pond survey:

Pond survey – national pond survey

Pond survey – PSYM

Pond survey – rapid assessment method

Fish:

Fish survey location

Terrestrial invertebrate:

Terrestrial invertebrate survey extent

Map Number

EC-11-142

Map Name

Other Protected and Notable Species (1)

Community Forum Area CFA26:
Washwood Heath to Curzon Street

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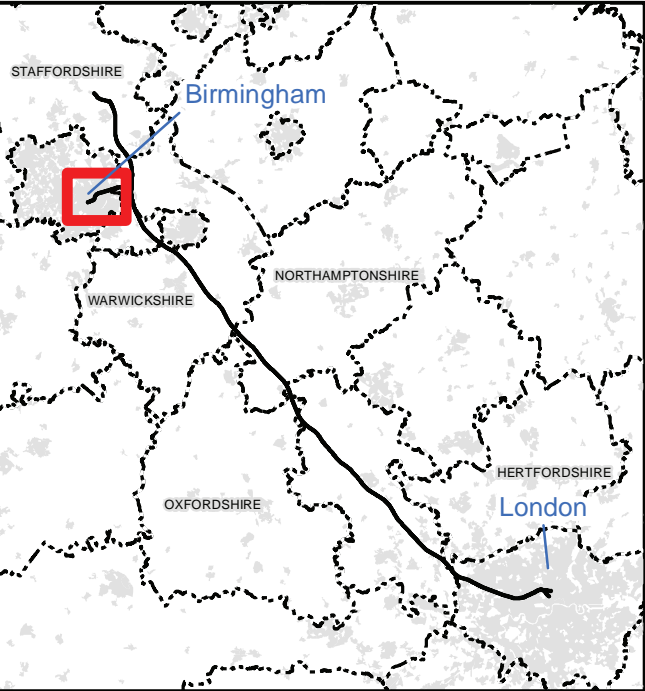
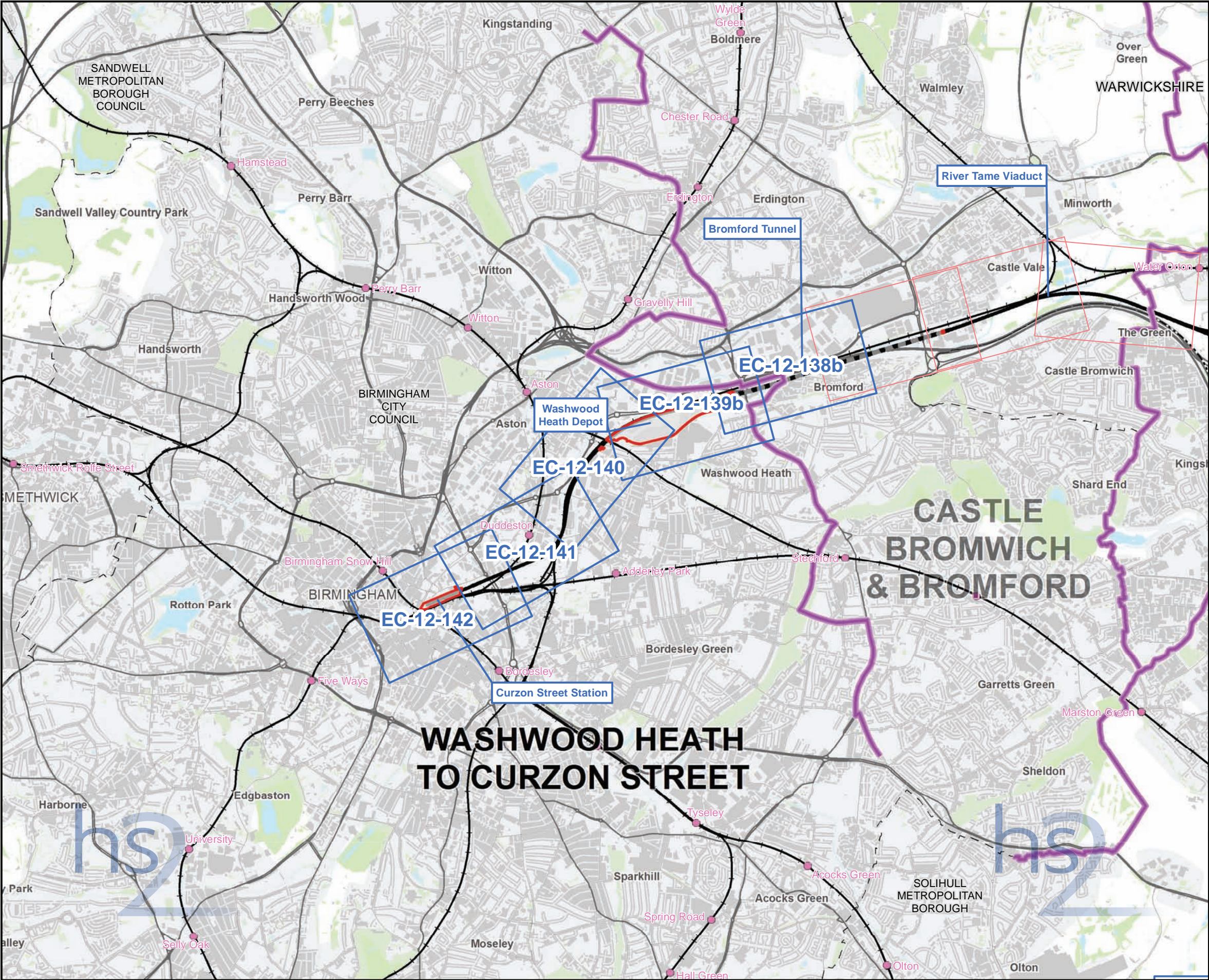
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LONDON-WEST MIDLANDS ENVIRONMENTAL STATEMENT

EC-12 – Other Protected and Notable Species (2)



Map Series Information:

This map series shows the extent of protected species surveys conducted to inform the Environmental Statement.

Note: Not all data layers in the legend are represented on every map.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community forum boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary

- Map sheets included in this community forum
- Map sheets not included in this community forum

Map Number	EC-12-INDEX-CFA26
Map Name	Index Map of: Other Protected and Notable Species (2)
Community Forum Area CFA26: Washwood Heath to Curzon Street	



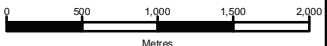
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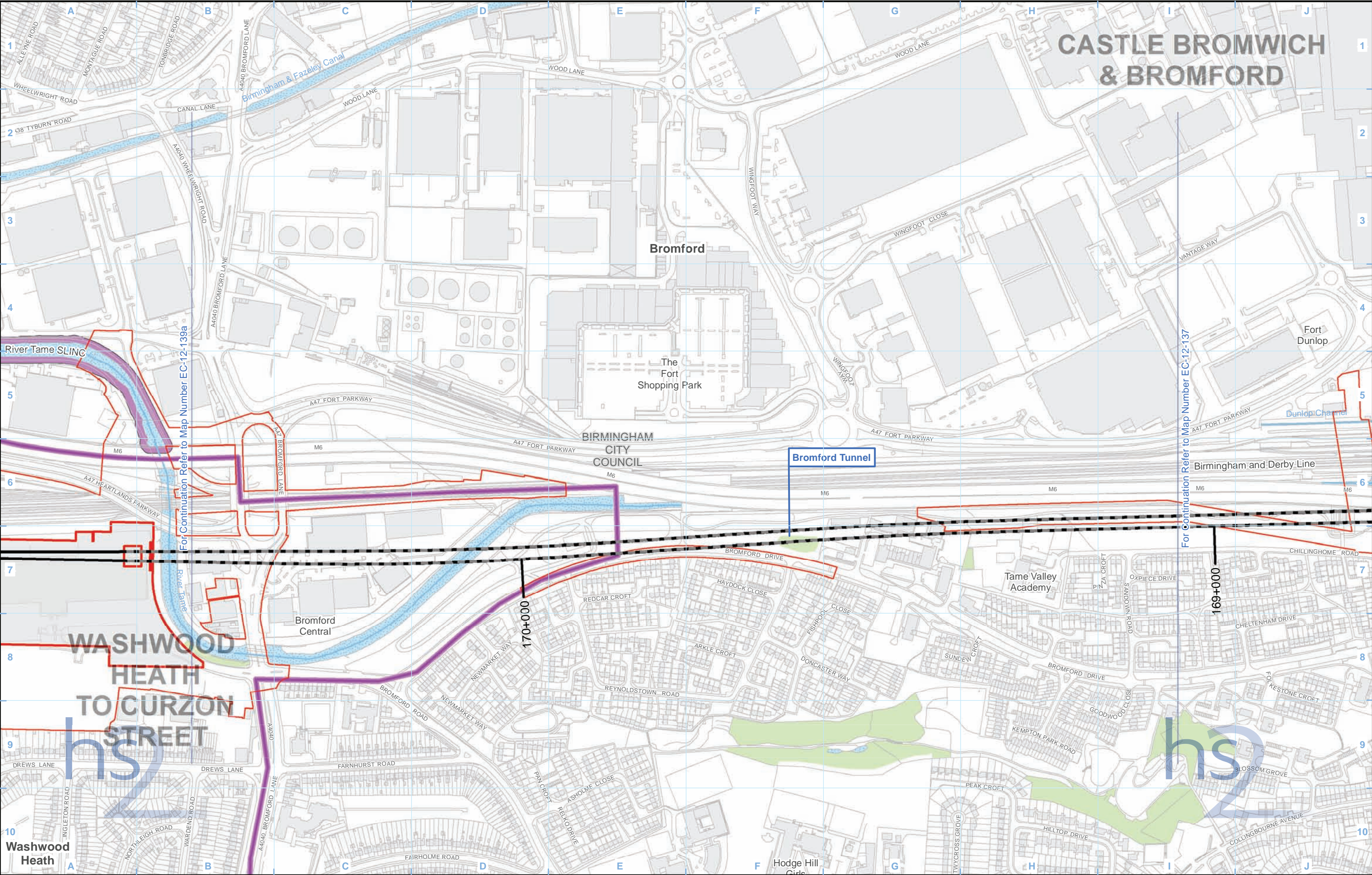
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Doc Number: C254-ARP-EV-MAP-040-573004-P06.00

Date: 25/10/13



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)

Aquatic invertebrate:

- Aquatic invertebrate survey location

Water vole:

- Water vole survey undertaken – presence confirmed
- Water vole survey undertaken – assumed absent
- Watercourse potentially suitable for water vole - no or limited access for survey

Dormouse:

- Nest tube survey and/or nut search conducted and presence confirmed
- Nest tube survey and/or nut search conducted and no signs of dormouse identified
- Site identified as potentially suitable for dormouse but no access available

Map Number

EC-12-138b

Map Name

Other Protected and Notable Species (2)

Community Forum Area CFA26:
Washwood Heath to Curzon Street

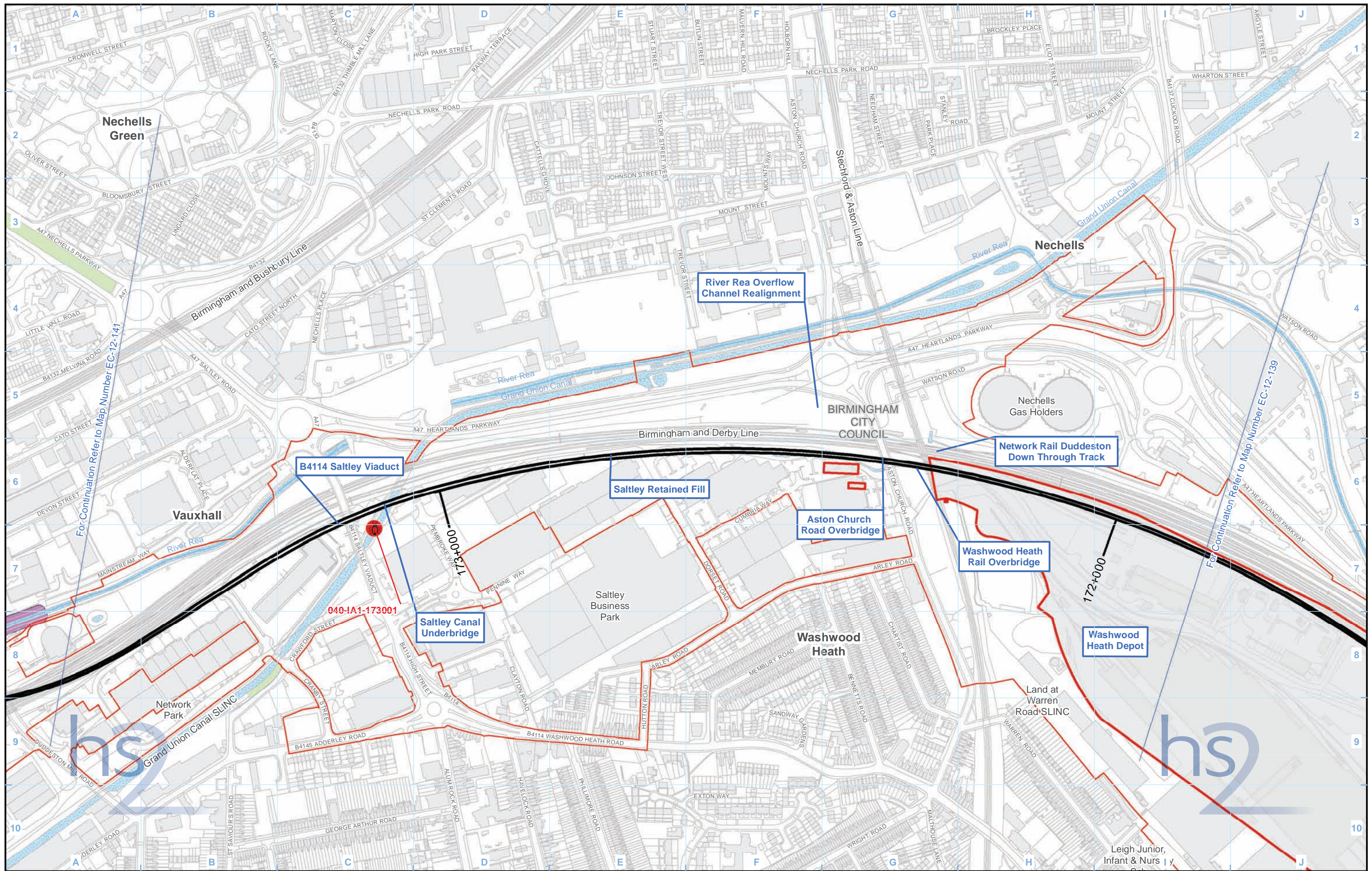
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Date: 28/10/13



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community forum boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland (verified by survey)

Aquatic invertebrate:

- Aquatic invertebrate survey location

Water vole:

- Water vole survey undertaken – presence confirmed
- Water vole survey undertaken – assumed absent
- Watercourse potentially suitable for water vole - no or limited access for survey

Dormouse:

- Nest tube survey and/or nut search conducted and presence confirmed
- Nest tube survey and/or nut search conducted and no signs of dormouse identified
- Site identified as potentially suitable for dormouse but no access available

Map Number

EC-12-140

Map Name

Other Protected and Notable Species (2)

Community Forum Area CFA26:
Washwood Heath to Curzon Street

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